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# **WATER SUPPLY OUTLOOK FOR MONTANA**



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**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

**MONTANA AGRICULTURAL EXPERIMENT STATION**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF  
**APR. 1, 1976**

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE  
SCS PHOTO AZ-5460

### PUBLISHED BY SOIL CONSERVATION SERVICE

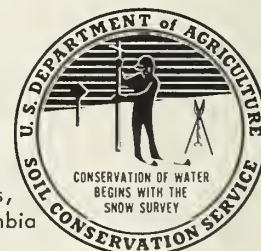
The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Cosper, Wyoming 82601

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# ***WATER SUPPLY OUTLOOK FOR MONTANA***

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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MONTANA WATER SUPPLY OUTLOOK  
April 1, 1976

\* \* \* \* \*  
\* March was a good snowfall month in most Montana water- \*  
\* sheds. Near average water contents were measured over \*  
\* the Kootenai, Lower Clark Fork, Flathead, Marias, Teton,\*  
\* Sun, Dearborn, and St. Mary's River drainages and in the\*  
\* mountains of Central Montana and in the upper part of \*  
\* Red Rock River drainage. Most of the southwestern and \*  
\* southern areas have above average snow cover. Portions \*  
\* of the Bitterroot, Upper Clark Fork, Big Hole, and \*  
\* Yellowstone River headwaters have very heavy snowpack. \*  
\* In general, the higher elevations have the best snow \*  
\* cover percentagewise. This is an ideal situation as \*  
\* the high snow will provide good late season water \*  
\* supplies, and the deficient snow in the lower eleva- \*  
\* tions will help lower the spring runoff. \*  
\*  
\* Streamflow is forecast to be average or above in all \*  
\* drainages except for the Milk River. In this area, \*  
\* reservoir storage and natural runoff should be more \*  
\* than adequate for all needs. Runoff is expected to \*  
\* be well above average in the headwaters area of the \*  
\* Bitterroot, Clark Fork, and Big Hole drainages. Most \*  
\* of the Yellowstone River Basin is forecast to have \*  
\* well above average runoff. \*  
\* \* \* \* \*

COLUMBIA RIVER DRAINAGE

Snow - Most mountain areas received average or above amounts of snow-  
fall during March. Melt at lower elevations has been negligible. The  
Flathead, Kootenai, and Lower Clark Fork have near average snowpack  
increasing to well above average in extreme headwaters of the Clark  
Fork and along the West side of the Bitterroot drainage. The area West  
of Kalispell improved but is still somewhat below average.

Streamflow - Spring and summer runoff is forecast near average in the  
Kootenai, Flathead, and Lower Clark Fork drainages. Well above aver-  
age flows are expected in the Upper Bitterroot and Upper Clark Fork  
River drainages. Other streams in the southern half of the area will  
have above average runoff.



## MISSOURI RIVER DRAINAGE

Snow - The pattern of snowfall set earlier in the winter continues. Near average snow water content continues in the head of Red Rock River, in all drainages North of the Dearborn, and in the mountains of Central Montana. Remaining areas have above average snow with well above average amounts in portions of the Big Hole, Madison, and Gallatin drainages in and near Yellowstone National Park. The high elevations continue to show better snow percentagewise than the lower elevations.

Streamflow - Near average runoff is forecast for the Red Rock, Musselshell, Judith, Marias, Teton, Sun, and St. Mary's Rivers. Below average runoff is expected in the Milk River drainage but current high storage levels in Fresno Reservoir and capability to obtain water from the St. Mary's River will provide adequate water supply for all uses. Most other streams are predicted to have above average runoff. The Big Hole River is forecast well above average.

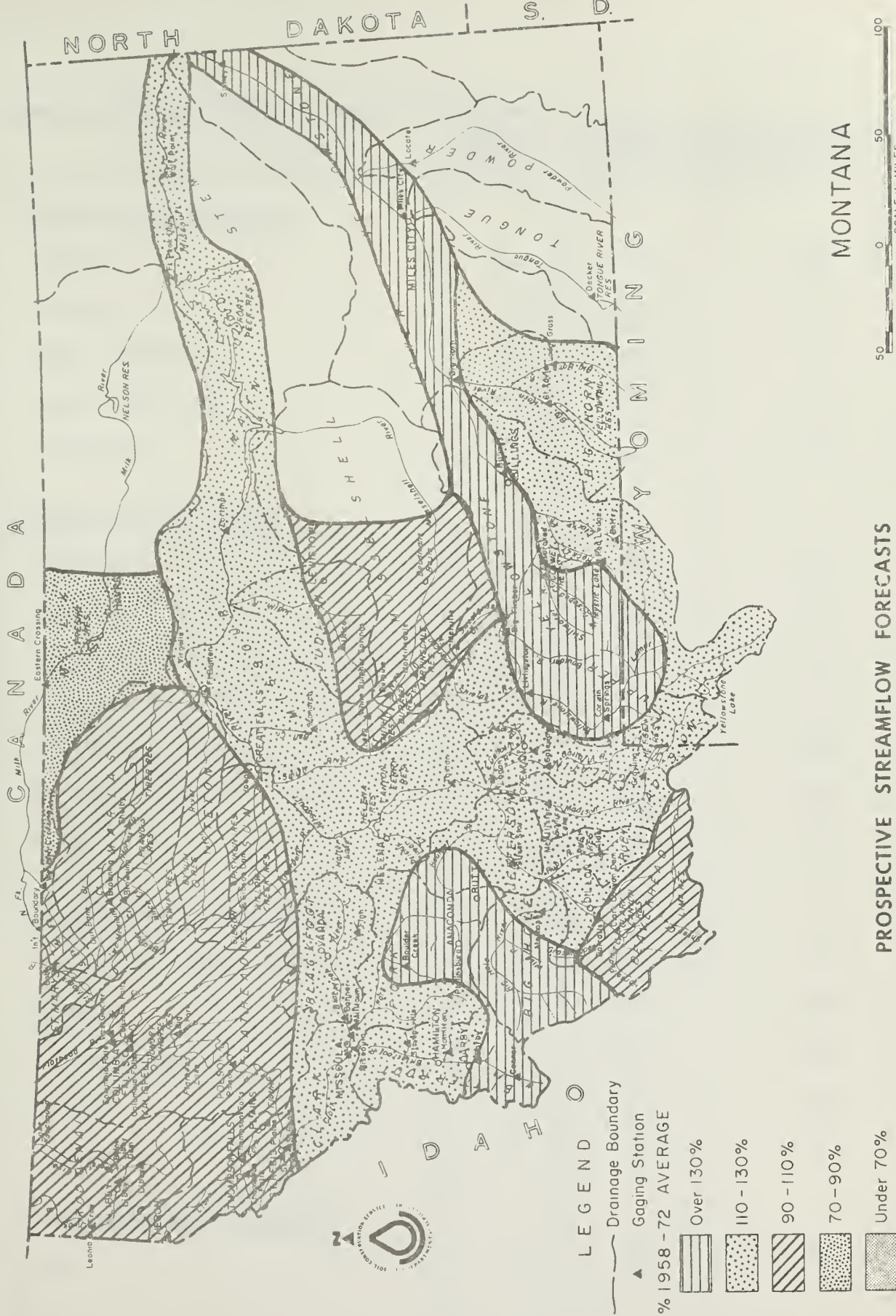
Late season water supplies should be average or above in most drainages.

## YELLOWSTONE RIVER BASIN

Snow - Heavy snowpack in and near Yellowstone National Park continues. The Crazy Mountains and the drainage above Cooney Reservoir have near average snow water content. Other drainages have above average snowpack. Low elevation snow cover is generally near or in some cases below average while higher elevations have a larger snow cover percentagewise. This will provide good late season water supplies.

Streamflow - Streams draining the Absaroka and Beartooth Mountains are forecast to have well above average runoff during the spring and summer months. Other streams tributary to the Yellowstone and Bighorn Rivers are expected to flow above average.







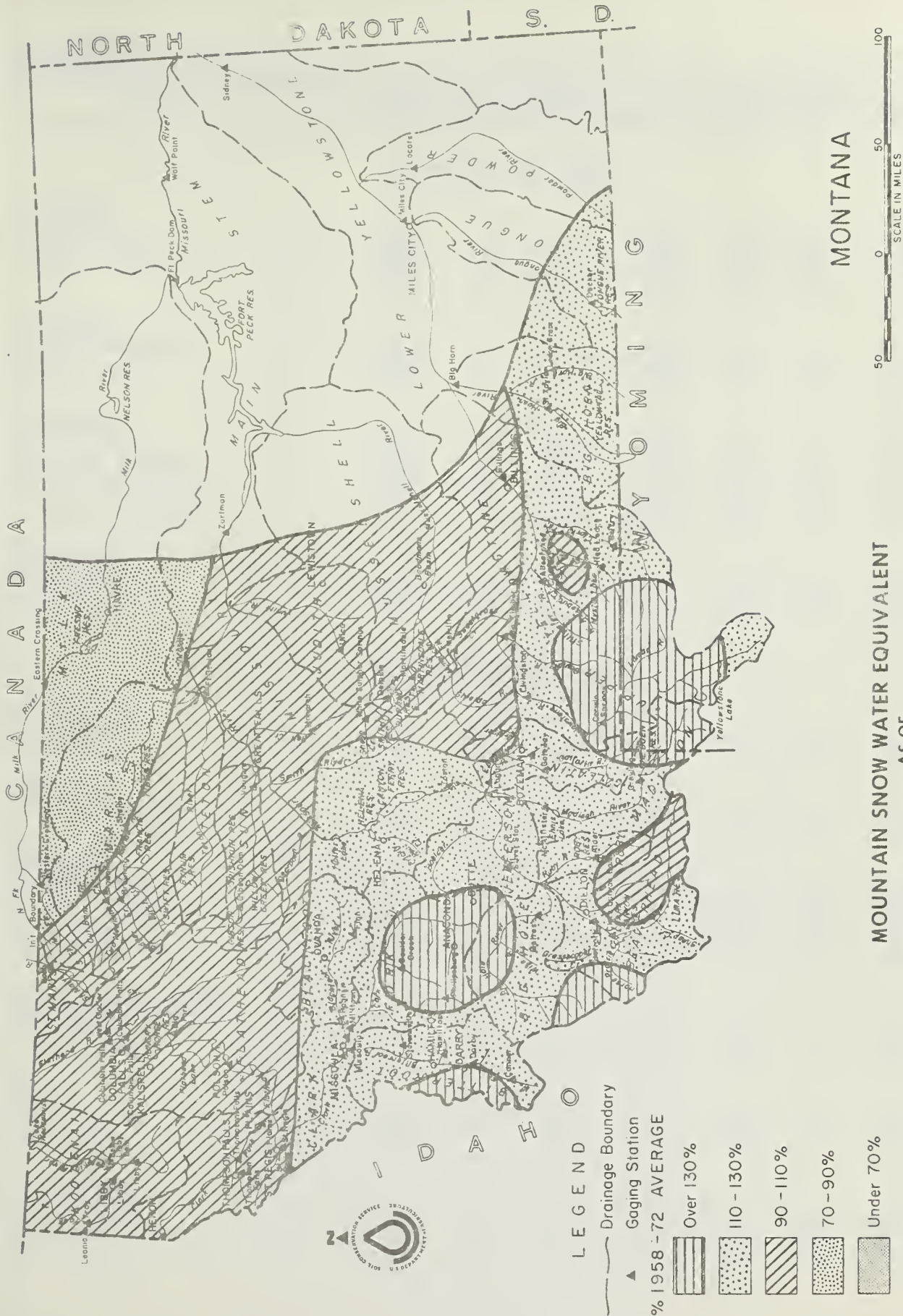


# SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF.	
		Last Year	Average
<u>COLUMBIA RIVER DRAINAGE</u>			
Kootenai	34	98	109
Flathead	30	95	102
Upper Clark Fork	32	108	119
Lower Clark Fork	13	101	114
Bitterroot	14	112	128
<u>MISSOURI RIVER DRAINAGE</u>			
Jefferson	48	105	121
Madison	23	113	124
Gallatin	15	104	112
Missouri Main Stem	11	96	105
Judith-Musselshell	17	91	102
Marias-Teton-Sun	12	102	103
Milk	3	71	82
<u>YELLOWSTONE RIVER DRAINAGE</u>			
Yellowstone (above Bighorn)	29	114	122
Bighorn	35	118	122
Little Bighorn	7	92	110
Tongue	12	97	113
Powder	6	124	128
<u>SASKATCHEWAN RIVER DRAINAGE</u>			
Bow	4	131	111
-4-			









# SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)			Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity	This Year		Last Year	Average †	
<u>COLUMBIA RIVER BASIN</u>								
<u>Kootenai</u>								
Baree Trail	3800	48	7.5	4/01	6.4	6.4	6.4	
Murphy Lake R. S.	3000	48	22.6	3/30	19.5	20.2	21.2	
Raven	3050	48	23.0	4/01	18.4	17.0	19.2	
<u>Flathead</u>								
Desert Mountain	5600	54	8.4	3/30	8.6	6.2	7.6	
Marias Pass	5250	54	6.5	3/29	6.2	4.2	5.7	
<u>Clark Fork</u>								
Black Pine	7100	48	10.0	3/31	8.1	7.1	7.5	
Lubrecht Forest	4100	48	26.8	3/31	23.5	15.7	19.9	
Seeley Lake R. S.	4030	48	11.9	4/02	12.4	9.2	9.9	
Skalkaho Summit	7260	48	10.8	3/29	9.9	9.5	9.7	
<u>Bitterroot</u>								
Gibbons Pass	7100	48	7.1	3/30	5.9	3.6	4.8	
Lolo Pass	5250	48	10.6	3/31	7.2	5.1	6.0	
<u>MISSOURI RIVER BASIN</u>								
<u>Beaverhead</u>								
Lakeview	6700	48	15.3	3/31	13.9	8.3	9.8	
<u>Madison</u>								
West Yellowstone	6700	48	6.5	3/30	1.8	1.8	2.7	
<u>Gallatin</u>								
Bridger Bowl	7250	48	17.0	3/29	15.8	15.0	16.0	
College Site No. 2	4856	54	17.7	3/31	16.8	15.9	17.0	
Lick Creek	6860	48	18.8	3/29	13.9	13.4	16.5	
Twenty-One Mile	7150	48	10.0	3/30	3.4	3.1	4.6	
<u>Missouri Main Stem</u>								
Kings Hill	7420	48	11.8	4/01	7.1	7.2	6.9	
Stemple Pass	6350	48	5.9	3/31	5.3	3.7	4.3	
<u>Milk</u>								
Beaver Creek	3950	48	20.9	3/30	9.2	9.1	13.5	
Rocky Boy	4700	36	10.1	3/30	7.2	7.7	7.9	
<u>Yellowstone</u>								
Battle Ridge	6020	48	17.6	3/30	13.3	14.6	13.8	
Northeast Entrance	7350	48	9.4	3/28	4.9	3.8	6.0	
PMC Dryland	3700	48	20.7	3/29	7.3	7.4	-	



# RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average
<u>COLUMBIA RIVER BASIN</u>					
Kootenai	Koocanusa	5,694.0	1,164.0	768.9	-
Flathead	Hungry Horse	3,428.0	2,245.0	1,793.0	2,157.0
	Flathead Lake	1,791.0	768.3	651.6	794.5
	Camas (4)	45.2	19.7	19.8	27.1
	Mission Valley (8)	100.3	58.1	32.9	38.1
Clark Fork	Georgetown	31.0	26.1	22.4	23.8
	Lower Willow Creek	4.6	3.8	1.8	1.4
	Nevada Creek	12.6	11.9	3.9	7.6
	Noxon Rapids	334.6	172.8	205.0	198.5
Bitterroot	Como	34.9	24.2	6.3	15.8
	Painted Rocks	31.7	31.8	0	20.2

## MISSOURI RIVER BASIN

Beaverhead	Clark Canyon	328.9	154.6	124.8	145.6
	Lima	84.0	48.9	46.5	38.8
Ruby	Ruby	38.8	31.5	29.8	30.6
Madison	Hebgen Lake	377.5	255.4	247.7	206.3
	Ennis Lake	41.0	34.2	34.4	36.3
Gallatin	Middle Creek	8.0	4.1	4.3	3.9
Missouri	Canyon Ferry	2,043.0	1,552.0	1,323.0	1,561.0
	Hauser & Helena	61.9	62.5	63.0	54.2
	Lake Helena	10.4	10.7	10.9	8.3
	Holter Lake	81.9	78.7	79.9	57.9
	Smith River	10.6	9.2	10.5	7.1
	Bair	7.0	5.6	6.7	5.4
	Martinsdale	23.1	16.2	14.0	7.8
	Deadman's Basin	72.2	53.8	51.4	49.5
	Fort Peck Lake	19,140.0	17,350.0	15,780.0	13,310.0
Sun	Gibson	99.0	70.4	61.7	43.6
	Willow Creek	32.2	28.8	24.4	21.0
	Pishkun	32.0	17.2	16.5	17.2
Marias	Lower Two Medicine	11.9		6.3	
	Four Horns	19.2		14.0	
	Swift	30.0	17.7	11.0	19.7
	Lake Frances	111.9	93.4	31.1	79.3
	Tiber	1,347.0	552.5	486.1	598.9
Milk	Beaver Creek	3.5	2.2	1.5	-
	Fresno	127.2	129.8	77.6	86.5
	Nelson	66.8	48.3	45.6	40.7
	Lake Sherburne	66.2	34.7	19.6	24.7
Yellowstone	Mystic Lake	21.0	2.3	4.0	4.7
	Tongue River	68.0	38.9	49.6	38.4
	Cooney	27.4	11.2	12.2	15.6
Bighorn	Bighorn Lake	1,356.0	784.4	735.0	796.2





# STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN, STREAM and or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

## COLUMBIA RIVER BASIN

KOOTENAI RIVER					
Libby (near) (2)	7750	104	Apr-Sept	6388	7456
Below Libby Dam	6745	105	Apr-July	5292	6417
	5250	105	Apr-June	3890	5011
FISHER RIVER					
Libby (near)	272	95	Apr-Sept		286
	257	96	Apr-July		269
YAAK RIVER					
Troy (near)	605	107	Apr-Sept		568
	590	108	Apr-July		544
KOOTENAI RIVER					
Leonia (at) (2)	9450	104	Apr-Sept	8093	9073
	8325	105	Apr-July	6846	7957
	6700	104	Apr-June	5298	6431
FLINT CREEK					
Boulder Creek (below) (3)	93.0	130	Apr-Sept		71.6
	75.6	135	Apr-July		56.1
MIDDLE FORK ROCK CREEK					
Philipsburg (near)	91.5	121	Apr-Sept		75.9
	83.3	121	Apr-July		68.6
NEVADA CREEK					
Finn (near)	27.0	125	Apr-Sept		21.6
	25.2	125	Apr-July		20.1
BLACKFOOT RIVER					
Bonner (near)	1330	129	Apr-Sept	1371	1031
	1220	131	Apr-July	1227	934
	1060	130	Apr-June	974	814
CLARK FORK RIVER					
Milltown (above) (4)	1010	127	Apr-Sept	1352	792
	900	130	Apr-July	1133	690
	770	130	Apr-June	858	590
CLARK FORK RIVER					
Missoula (above)	2340	128	Apr-Sept	2722	1823
	2120	131	Apr-July	2360	1624
	1830	130	Apr-June	1832	1404
INFLOW LOWER WILLOW CREEK RESERVOIR					
Hall (near)	21.8	135	Apr-Sept	28.0	16.2
	21.0	136	Apr-July	26.2	15.4

(2) Adjusted for storage in Lake Koocanusa.

(3) Sum Flint Creek at Maxville and Boulder Creek at Maxville.

(4) Difference in observed flow Clark Fork above Missoula and Blackfoot near Bonner.



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
WEST FORK BITTERROOT RIVER					
Conner (near) (5)	245	142	Apr-Sept		172
	225	144	Apr-July		156
BITTERROOT RIVER					
Darby (near)	770	132	Apr-Sept	736	584
	720	133	Apr-July	662	542
	640	134	Apr-June	502	479
SKALKAHO CREEK					
Hamilton (near)	69.5	123	Apr-Sept		56.6
	62.0	125	Apr-July		49.6
BURNT FORK CREEK					
Stevensville (near) (10)	45.5	129	Apr-Sept		35.3
	40.0	129	Apr-July		31.0
BITTERROOT RIVER					
Missoula (at) (6)	2000	131	Apr-Sept		1527
	1870	132	Apr-July		1412
	1600	129	Apr-June		1236
CLARK FORK RIVER					
Missoula (below)	4340	130	Apr-Sept		3350
	3990	131	Apr-July		3036
	3430	130	Apr-June		2640
CLARK FORK RIVER					
St. Regis (at)	5650	125	Apr-Sept	5750	4507
	5150	126	Apr-July	5035	4087
	4500	126	Apr-June	3805	3563
NORTH FORK FLATHEAD RIVER					
Columbia Falls (near)	1950	98	Apr-Sept		1991
	1800	99	Apr-July		1813
	1550	100	Apr-June		1551
MIDDLE FORK FLATHEAD RIVER					
West Glacier (near)	2000	104	Apr-Sept	2330	1917
	1850	105	Apr-July	2136	1768
	1570	104	Apr-June	1687	1514
SOUTH FORK FLATHEAD RIVER					
Columbia Falls (near) (7)	2500	105	Apr-Sept	2520	2378
	2350	105	Apr-July	2338	2240
	2050	103	Apr-June	1856	1984

(5) Adjusted for storage in Painted Rocks Reservoir.

(6) Difference in observed flow Clark Fork above and below Missoula.

(7) Adjusted for storage in Hungry Horse Reservoir.

(10) Adjusted for diversion into Sunset Highline Canal.



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last year	Average
FLATHEAD RIVER					
Columbia Falls (at) (7)	6600	103	Apr-Sept	6794	6421
	6150	104	Apr-July	6346	5942
	5350	104	Apr-June	5041	5151
SWAN RIVER					
Big Fork (near)	755	105	Apr-Sept		717
	673	107	Apr-July		630
FLATHEAD RIVER					
Polson (near) (8)	7900	103	Apr-Sept	7895	7648
	7370	104	Apr-July	7142	7082
	6300	103	Apr-June	5631	6113
CLARK FORK RIVER					
Plains (near) (8)	14400	114	Apr-Sept	14101	12601
	13070	113	Apr-July	12542	11523
	11200	113	Apr-June	9669	9934
THOMPSON RIVER					
Thompson Falls (near)	300	108	Apr-Sept		277
	270	109	Apr-July		248
PROSPECT CREEK					
Thompson Falls (at)	160	109	Apr-Sept		147
	150	109	Apr-July		137
CLARK FORK RIVER					
Whitehorse Rapids (at) (9)	15900	113	Apr-Sept		14336
	14570	113	Apr-July		13086
	12400	112	Apr-June		11325

(7) Adjusted for storage in Hungry Horse Reservoir.

(8) Adjusted for storage in Hungry Horse Reservoir and Flathead Lake.

(9) Adjusted for storage in Hungry Horse, Flathead Lake, and Noxon Rapids Reservoirs.



# STREAMFLOW FORECASTS

BASIN, STREAM and or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	PERIOD	Last Year Average

## MISSOURI RIVER BASIN

BEAVERHEAD RIVER					
Grant (near) (11) (12)	147	101	Apr-Sept	295	145
	130	102	Apr-July	248	127
RUBY RIVER					
Alder (near)	106	113	Apr-Sept		93.9
	91	115	Apr-July		79.4
BIG HOLE RIVER					
Melrose (near)	990	132	Apr-Sept		748
	913	132	Apr-July		694
BIRCH CREEK					
Glen (near)	17.3	126	Apr-Sept		13.7
	14.5	126	Apr-July		11.5
BOULDER RIVER					
Boulder (near)	116	130	Apr-Sept	184	89.5
	111	130	Apr-July	170	85.3
WILLOW CREEK					
Harrison (near)	23.8	126	Apr-Sept		18.9
	21.5	126	Apr-July		17.1
MADISON RIVER					
Grayling (near) (13)	590	123	Apr-Sept	529	480
	470	126	Apr-July	410	374
MADISON RIVER					
McAllister (near) (14)	1020	123	Apr-Sept	998	828
	820	126	Apr-July	792	652
GALLATIN RIVER					
Gateway (near)	635	120	Apr-Sept		531
	550	122	Apr-July		451

- (11) Adjusted for storage in Lima Reservoir.  
 (12) Adjusted for storage in Clark Canyon Reservoir.  
 (13) Adjusted for storage in Hebgen Lake.  
 (14) Adjusted for storage in Hebgen and Ennis Lakes.





# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
HYALITE CREEK					
Bozeman (near) (15)	52.5	119	Apr-Sept		44.2
	46.0	120	Apr-July		38.2
GALLATIN RIVER					
Logan (at)	735	128	Apr-Sept		573
	640	131	Apr-July		487
MISSOURI RIVER					
Toston (at) (16)	3100	127	Apr-Sept	3875	2432
	2710	128	Apr-July	3280	2109
SHEEP CREEK					
White Sulphur Springs (near)	22.5	109	Apr-Sept	28.6	20.6
	19.5	108	Apr-July	24.9	18.0
SUN RIVER					
Gibson Dam (at) (17)	620	105	Apr-Sept	829	590
	572	106	Apr-July	764	541
BELT CREEK					
Monarch (near)	150	122	Apr-Sept		123
	138	122	Apr-July		113
MISSOURI RIVER					
Fort Benton (at) (18)	4500	122	Apr-Sept		3690
	3880	124	Apr-July		3123
TWO MEDICINE CREEK					
Browning (near) (19)	260	103	Apr-Sept		253
	250	104	Apr-July		240
BADGER CREEK					
Browning (near)	136	105	Apr-Sept		130
	118	104	Apr-July		113
MARIAS RIVER					
Shelby (near) (20)	570	102	Apr-Sept	1216	559
	550	102	Apr-July	1138	538

- (15) Adjusted for storage in Middle Creek Reservoir.
- (16) Adjusted for storage in Hebgen and Ennis Lakes and Clark Canyon Reservoir.
- (17) Adjusted for storage in Gibson Reservoir and diversions.
- (18) Adjusted for storage in Canyon Ferry Reservoir.
- (19) Adjusted for storage in Two Medicine Reservoir and diversions into Two Medicine Canal.
- (20) Adjusted for storage in Two Medicine, Four Horns, Lake Frances, and Swift Reservoirs.



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
MISSOURI RIVER					
Virgelle (at) (21)	5200	120	Apr-Sept	4342	
	4500	120	Apr-July	3742	
SOUTH FORK JUDITH RIVER					
Utica (near)	15.0	101	Apr-Sept	14.9	
	13.9	101	Apr-July	13.7	
MISSOURI RIVER					
Landusky (near) (21)	5500	116	Apr-Sept	4739	
	4800	118	Apr-July	4068	
NORTH FORK MUSSELSHELL RIVER					
Delpine (near)	6.2	100	Apr-Sept	6.2	
	5.4	100	Apr-July	5.4	
SOUTH FORK MUSSELSHELL RIVER					
Martinsdale (above)	54.0	108	Apr-Sept	50.1	
	52.0	110	Apr-July	47.3	
MISSOURI RIVER					
Fort Peck Dam (below) (22)	5400	117	Apr-Sept	4598	
	4800	118	Apr-July	4069	
MILK RIVER					
Eastern Crossing (at)	230	88	Apr-Sept	260	
MISSOURI RIVER					
Wolf Point (near) (22)	5800	118	Apr-Sept	4898	
	5200	119	Apr-July	4361	
MISSOURI RIVER					
Williston, N.D. (near) (29)	15000	128	Apr-Sept	11778	
	13400	128	Apr-July	10437	

## SASKATCHEWAN RIVER BASIN

ST. MARY RIVER					
Babb (near) (30)	505	103	Apr-Sept	489	
	440	105	Apr-July	421	

- (21) Adjusted for storage in Canyon Ferry and Tiber Reservoirs.
- (22) Adjusted for storage in Canyon Ferry, Tiber, and Fort Peck Reservoirs.
- (29) Adjusted for storage in Canyon Ferry, Tiber, Fort Peck, Buffalo Bill, Boysen, and Yellowtail Reservoirs. Sum Yellowstone River near Sidney and Missouri River near Culbertson.
- (30) Adjusted for storage in Lake Sherburne.



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	FORECAST PERIOD	Last Year Average

## YELLOWSTONE RIVER BASIN

YELLOWSTONE RIVER					
Corwin Springs (at)	2660	133	Apr-Sept	2159	1996
	2250	135	Apr-July	1741	1662
YELLOWSTONE RIVER					
Livingston (near)	3150	136	Apr-Sept		2317
	2650	138	Apr-July		1926
BOULDER RIVER					
Big Timber (at)	515	136	Apr-Sept		379
	482	138	Apr-July		350
STILLWATER RIVER					
Absarokee (near) (25)	770	130	Apr-Sept		591
	650	132	Apr-July		494
CLARKS FORK RIVER					
Belfry (near)	775	128	Apr-Sept		607
	692	127	Apr-July		546
ROCK CREEK					
Red Lodge (near)	148	135	Apr-Sept	140	110
	113	135	Apr-July	111	84.0
INFLOW COONEY RESERVOIR					
Boyd (near)	60.0	117	Apr-Sept		51.5
	48.4	118	Apr-July		41.1
YELLOWSTONE RIVER					
Billings (at)	5800	136	Apr-Sept	6472	4246
	4990	138	Apr-July	5608	3613
BIGHORN RIVER					
St. Xavier (near) (26)	2370	128	Apr-Sept	2497	1849
	2200	129	Apr-July	2366	1706
LITTLE BIGHORN RIVER					
Lodgegrass (near) (28)	170	116	Apr-Sept		146
	150	116	Apr-July		129
YELLOWSTONE RIVER					
Miles City (at) (27)	8300	130	Apr-Sept		6378
	7400	133	Apr-July		5555
YELLOWSTONE RIVER					
Sidney (near) (27)	8800	132	Apr-Sept		6665
	7900	134	Apr-July		5895

- (25) Adjusted for storage in Mystic Lake.
- (26) Adjusted for storage in Buffalo Bill, Boysen, Bull Lake, and Yellowtail Reservoirs.
- (27) Adjusted for storage in Buffalo Bill, Boysen, and Yellowtail Reservoirs.
- (28) Sum Little Bighorn below Pass Creek and Lodgegrass Creek near Wyola.





## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Elevation				Last Year	Average
ABUNDANCE LAKE	8800	3/29	83	30.0	21.2	20.9
AMBROSE	6480	4/01	52	17.2	15.3	13.8
ARCH FALLS	7350	3/29	53	16.4	16.6	14.0
BADGER PASS	6900	3/31	118	48.4	44.0	42.0
BALD EAGLE PEAK	5700	3/31	170	67.9	70.2	68.0
BALD RIDGE	7500	3/30	47	15.3	17.4	14.0
BANFIELD MOUNTAIN	5600	4/01	80	27.4	30.0	25.5
BANFIELD MOUNTAIN PILLOW	5600	4/01	SP	25.0	27.1	21.8
BARRE CREEK	5500	4/01	147	59.8	59.1	49.4
BARRE MIDWAY	4600	3/31	121	45.0	49.8	37.7
BARRE TRAIL	3800	4/01	36	14.3	15.3	9.6
BASIN CREEK	7180	3/26	44	11.8	-	-
BASSOO PEAK	5150	4/01	33	10.1	16.4	12.0
BATTLE RIDGE	6020	3/30	20	6.5	10.9	7.4
BEAR BASIN	8150	3/31	71	27.0	24.8	22.4
BEAR PAW SKI AREA	5200	3/29	18	5.0	8.6	6.3
BEAVER LAKE	5900	3/31	76	27.6	27.4	25.1
BERRY MEADOW	7000	3/29	33	9.7	9.0	8.3
BIG COULEE	5100	3/29	16	4.9	8.4	-
BIG CREEK	6750	3/31	116	44.5	43.5	49.7
BIG SKY	7700	3/30	60	19.7	17.6	17.3
BIG SKY MEADOW	6350	3/31	41	13.3	13.0	9.0
BIG SNOWY	7150	4/02	58	19.6	25.8	19.9
BLACK BEAR	7950	3/30	128	53.0	43.4	-
BLACK BEAR PILLOW	7950	3/30	SP	44.7	38.0	-
BLACK MOUNTAIN	7750	3/31	62	20.4	-	-
BLACK PINE	7100	3/31	54	19.0	14.6	14.0
BLACK PINE PILLOW	7100	3/31	SP	21.1	16.0	14.2
BLOODY DICK	7600	3/31	56	19.8	17.0	14.0
BLUE LAKE	5900	3/31	80	30.0	30.0	28.2
BOTS SOTS	8000	4/01	32	8.3	11.0	-
BOULDER MOUNTAIN	7950	3/29	72	25.5	21.1	19.5
BOX CANYON	6670	4/02	52	18.5	-	-
BOXELDER CREEK	5100	3/29	30	7.4	10.5	-
BRANHAM LAKES	8850	3/30	91	35.4	30.8	31.6
BRIDGER BOWL	7250	3/30	82	30.2	26.7	30.8
BRIDGER BOWL PILLOW	7250	3/30	SP	30.1	25.3	29.6
BRISTOW CREEK	3900	4/01	37	13.3	17.3	13.4
BRUSH CREEK TIMBER	5000	3/30	35	10.8	12.6	10.9
BULL MOUNTAIN	6600	3/31	23	7.9	8.6	-
CABIN CREEK	5200	3/29	19	5.7	7.0	7.4
CALL ROAD	8050	3/29	50	14.5	14.5	12.2
CALVERT CREEK	6450	4/01	49	14.2	13.4	10.6
CALVERT CREEK PILLOW	6450	4/03	30	8.1	-	-
CAMP MISERY	6400	3/29	124	46.9	52.2	49.6
CAMP SENIA	7890	4/01	28	7.3	9.2	7.2
CANYON (WY)	7750	4/01	63	21.7	14.4	16.5
CARROT BASIN	9000	3/30	106	39.6	41.2	38.1



# SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average
CARROT BASIN PILLOW	9000	3/30	SP	31.6	27.0	28.6
CAPTER CREEK	7400	4/03	30	8.1	6.3	6.4
CEDAR GROVE	4100	3/31	45	15.7	17.5	12.7
CHESSMAN RESERVOIR	6200	3/31	11	3.0	7.4	3.3
CLOVER MEADOW	8600	3/29	71	22.2	21.2	18.7
COLE CREEK	7850	3/31	62	20.4	19.6	-
COLE CREEK PILLOW	7850	3/31	SP	18.7	19.5	-
COLLEY CREEK	6300	4/01	35	10.8	11.9	-
COMBINATION	5600	3/31	27	7.8	7.4	8.1
COMBINATION PILLOW	5600	3/31	SP	8.0	8.1	-
COOKE STATION	8150	4/01	72	27.4	20.7	20.5
COPPER BOTTOM	5200	4/01	37	12.8	11.1	11.8
COPPER BOTTOM PILLOW	5200	4/01	0	15.5	-	-
COPPER CAMP	6950	4/01	93	37.4	30.7	35.6
COPPER CAMP PILLOW	6950	4/01	0	45.4	-	-
COPPER CREEK	5700	4/01	46	16.0	16.2	16.3
COPPER LAKE CREEK	6100	4/01	73	27.0	26.3	25.7
COPPER MOUNTAIN	7700	4/02	47	14.4	15.5	12.3
COTTONWOOD CREEK	6400	3/25	39	11.9	9.6	-
COYOTE HILL	4200	3/31	34	12.1	14.5	10.5
CREVICE MOUNTAIN	8400	3/30	50	14.1	12.4	10.6
CRYSTAL LAKE	6100	4/02	42	12.6	17.5	14.5
DAD CREEK LAKE	8400	3/29	66	19.8	16.0	15.3
DAISY PEAK	7600	3/30	48	14.3	12.9	11.6
DALY CREEK	5780	3/29	55	16.7	13.8	-
DARKHORSE LAKE	8600	3/29	96	38.2	35.2	28.0
DAVIS CREEK	5400	4/02	80	28.1	29.9	26.5
DEADMAN CREEK	6450	4/01	34	10.6	13.6	12.7
DEADMAN CREEK PILLOW	6450	4/01	SP	9.4	12.0	11.0
DESERT MOUNTAIN	5600	3/31	49	16.6	17.3	17.2
DEVILS SLIDE	8100	3/29	78	27.6	24.1	24.7
DISCOVERY BASIN	7050	3/31	43	13.8	12.8	-
DIVIDE	7800	3/29	40	10.6	13.6	11.6
DIVIDE PILLOW	7800	3/29	0	9.9	-	-
DIX HILL	6400	4/03	36	12.2	11.8	-
EAGLE CREEK	7000	3/28	56	18.7	18.8	14.9
EAST BOULDER S	9250	4/01	98	39.0A	35.5	-
EAST FORK R.S.	5400	3/29	29	8.2	8.7	6.7
EL DORADO MINE	7800	3/29	97	31.4	22.4	23.1
ELK HORN SPRINGS	7800	3/29	45	12.3	10.8	9.7
ELK PEAK	8000	4/02	58	19.5	20.4	19.2
EMERY CREEK	4350	3/31	51	17.7	-	-
FATTY CREEK	5500	3/31	73	24.9	26.8	24.8
FISH CREEK	8000	3/26	47	13.3	-	-
FISHER CREEK	9100	4/01	120	49.2	40.2	38.5
FISHER CREEK PILLOW	9100	4/01	SP	45.4	39.0	35.0
FIVE-BULL	5700	3/31	15	4.6	10.2	7.5
FLEECER RIDGE	7500	3/31	50	14.4	13.0	-
FOOLHEN	8280	3/29	72	23.8	18.2	18.2
FOREST LAKE	6400	3/28	47	15.0	17.0	12.7



## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average
FOUR MILE	6900	3/29	40	11.5	9.7	9.1
FRED BURR PASS	8000	3/30	96	34.7	25.3	28.2
FREIGHT CREEK	6000	3/31	47	17.4	18.0	16.8
FROHNER MEADOWS	6480	3/30	32	9.4	9.8	-
FROHNER MEADOWS PILLOW	6480	3/30	SP	9.4	10.5	-
GARVER CREEK	4250	4/02	32	10.5	14.8	12.8
GARVER CREEK PILLOW	4250	4/02	SP	10.4	13.0	10.4
GIBBONS PASS	7100	3/25	83	29.1	28.6	23.7
GOAT MOUNTAIN	7000	4/02	42	13.6	10.4	11.8
GOLD STONE	8100	3/31	68	24.7	21.2	17.9
GRASSHOPPER	7000	4/02	20	5.1	7.6	5.9
GRAVE CREEK	4300	3/29	58	19.2	20.1	19.4
GRAVE CREEK PILLOW	4300	3/27	0	19.8	-	-
GRIFFIN CREEK DIVIDE	5150	3/31	35	11.0	16.8	12.4
GRIZZLY PEAK	8400	3/31	55	18.0	17.0	17.5
GUNSIGHT LAKE	6300	3/31	120	43.5	47.3	42.9
HAND CREEK	5030	3/30	44	13.5	-	-
HAWKINS LAKE	6450	4/02	107	41.3	36.6	32.8
HAWKINS LAKE PILLOW	6450	4/02	SP	37.2	33.3	30.4
HAYMAKER	8050	3/29	48	14.2	13.9	13.6
HEART LAKE TRAIL	4800	4/02	77	30.0	28.7	23.4
HEBGEN DAM	6550	3/31	46	16.8	15.6	11.6
HELL ROARING DIVIDE	5770	4/02	87	31.9	36.7	34.0
HIGHWOOD DIVIDE	5650	3/29	31	10.9	11.0	-
HIGHWOOD STATION	4600	3/29	0	.0	7.0	-
HOLBROOK	4530	3/29	34	10.7	11.6	10.5
HOOD MEADOW	6600	3/29	46	13.8	14.2	12.0
HOODOO BASIN	6000	4/02	154	62.7	56.8	53.8
HOODOO BASIN PILLOW	6000	4/01	SP	54.7	51.9	53.3
HOODOO CREEK	5900	4/02	146	58.4	51.8	50.3
INDEPENDENCE	7850	4/02	67	25.8	22.8	19.1
INTERGAARD	6450	4/01	44	13.7	10.9	9.2
ISLAND PARK (ID)	6310	3/31	60	21.5	20.8	16.4
JACK CREEK	7500	3/30	30	8.1	7.7	6.1
JAHNKE LAKE TRAIL	7200	3/31	47	14.8	13.1	9.7
JOHNSON PARK	6450	3/30	28	8.0	9.2	7.2
KING CREEK SADDLE	4550	3/26	0	.0	5.1	-
KING SPRINGS	4150	3/26	0	.0	4.0	-
KINGS HILL	7500	3/29	51	16.5	16.2	13.2
KISHENEHN	5890	3/28	27	7.7	10.5	8.4
KIT CARSON (ID)	5020	3/29	42	12.9	13.8	9.1
KIWANIS CAMP	3720	3/29	0	.0	3.9	-
LAKE CAMP (WY)	7850	3/31	45	12.7	9.3	9.9
LAKE CREEK	6100	4/02	33	10.6	11.2	7.5
LAKEVIEW CANYON	6930	3/31	44	12.4	16.2	13.6
LAKEVIEW RIDGE	7400	3/31	39	11.7	14.2	11.5
LATHAM SPRINGS (ID)	7650	3/31	106	44.4	37.4	32.6
LEMHI PASS	7480	3/29	45	13.6	12.0	9.2
LEMHI RIDGE	8100	3/29	50	15.5	14.6	10.4
LEMHI RIDGE PILLOW	8100	3/29	0	16.4	-	-





## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average
NAME	Elevation					
LICK CREEK	6860	3/29	46	12.6	13.1	10.6
LICK CREEK PILLOW	6860	3/29	SP	11.3	13.0	10.6
LITTLE PARK	7400	3/31	61	21.2	18.8	17.0
LOGAN CREEK	4300	3/30	25	7.5	10.4	8.0
LOLO PASS (ID)	5230	3/29	108	38.1	34.8	32.8
LOLO PASS PILLOW	5230	4/01	0	31.4	-	-
LONE MOUNTAIN	8880	3/30	82	30.1	25.4	25.1
LOST HORSE	5940	3/31	120	48.3	38.2	33.7
LOST SOUL	4800	4/01	54	18.4	20.9	17.2
LOWER TWIN	7900	3/29	73	25.8	24.0	22.5
LUBRECHT FLUME	4800	3/31	22	8.6	9.0	5.1
LUBRECHT FOREST # 3	5450	3/31	27	8.2	10.1	7.4
LUBRECHT FOREST # 4	4650	3/31	4	1.9	4.7	2.8
LUBRECHT FOREST # 6	4040	3/31	5	2.3	6.0	2.8
LUBRECHT HYDROPLOT	4200	3/31	15	6.2	8.2	3.2
LUPINE CREEK (WY)	7300	4/01	47	14.5	11.7	10.3
MADISON PLATEAU	7750	3/30	84	31.8	26.1	22.3
MADISON PLATEAU PILLOW	7750	3/30	SP	31.2	25.0	23.2
MARIAS PASS	5250	4/01	51	18.0	20.6	19.6
MAYNARD CREEK	6210	3/30	52	17.2	17.0	19.4
MAYNARD CREEK PILLOW	6210	3/30	SP	10.2	13.7	12.7
MIDDLE MILL CREEK	7850	3/30	56	18.5	20.8	16.6
MILL CREEK	7500	4/01	50	15.7	18.8	14.3
MINERAL CREEK	4000	3/30	61	21.1	21.5	20.0
MISSION MOUNTAIN	5050	3/26	0	.0	6.0	-
MONUMENT PEAK	8800	4/02	96	38.0	30.6	27.8
MOUNT LOCKHART	6400	4/04	75	28.8	23.2	25.0
MOUNT LOCKHART PILLOW	6400	4/04	SP	25.3	-	22.5
MUDD LAKE	7650	4/01	67	23.7	22.6	23.0
NEW WORLD	6900	3/30	58	19.4	17.4	16.3
NEZ PERCE CAMP	5580	3/29	57	16.9	19.8	15.3
NEZ PERCE CREEK	6500	4/02	28	8.6	10.1	6.8
NEZ PERCE PASS	6570	3/29	72	24.6	24.1	17.3
NOISY BASIN	6040	3/29	123	45.9	48.6	-
NOISY BASIN PILLOW	6040	3/29	SP	38.2	40.3	-
NOISY CREEK	3600	3/29	11	3.3	7.1	-
NORRIS BASIN (WY)	7500	3/30	48	15.5	12.6	11.0
NORTH FK. ELK CREEK	6250	4/01	46	15.2	16.2	12.7
NORTH FK. ELK CREEK PILL	6250	4/01	SP	16.5	16.6	13.1
NORTH FORK JOCKO	6330	3/31	139	53.1	52.1	49.6
NORTH MEADOW	7500	3/29	40	11.1	10.2	9.2
NORTHEAST ENTRANCE	7400	3/28	45	15.2	13.4	9.5
NORTHEAST ENTRANCE PILL.	7400	3/28	SP	13.5	10.6	9.3
NOTCH	8500	3/29	57	16.0	20.4	16.3
OLD FAITHFUL (WY)	7360	3/31	62	22.0	9.0	-
OPHIR PARK	7150	4/03	68	25.2	19.2	-
PALISADE CREEK	8250	4/01	91	35.4	30.0	31.4
PETERSON MEADOWS	7200	3/29	52	16.2	12.2	10.1
PETERSON MEADOWS PILLOW	7200	3/29	SP	15.9	12.0	-
PICKET PIN D	9450	4/01	85	33.0A	33.0	-





# SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
					Last Year	Average
NAME	Elevation					
PICKET PIN LOWER	6200	3/30	13	4.3	7.0	-
PICKET PIN MIDDLE	7250	3/30	54	21.5	24.0	-
PICKET PIN UPPER	8100	3/30	72	27.6	25.6	-
PICNIC GROUNDS	6200	3/31	19	6.1	5.7	4.6
PIPESTONE PASS	7200	3/31	30	8.7	9.0	6.2
PLACER BASIN F	8800	4/01	67	25.5A	27.0	-
POORMAN CREEK	5100	3/31	101	39.3	41.3	38.0
POORMAN CREEK PILLOW	5100	3/31	SP	38.4	42.1	32.1
PORCUPINE R.S.	6500	3/30	29	8.8	11.2	8.1
POTOMAGETON PARK	7150	3/29	53	18.0	17.4	15.3
RED MOUNTAIN	6000	3/30	66	22.1	23.7	20.1
ROCK CREEK	5600	4/02	29	9.2	13.8	10.2
ROCK CREEK MEADOWS	8160	4/02	84	27.8	-	-
ROCKER PEAK	8000	3/29	61	20.4	15.4	16.7
ROCKER PEAK PILLOW	8000	3/29	SP	19.1	15.7	16.7
ROCKY BOY	4700	3/29	7	2.2	6.5	4.7
ROCKY BOY PILLOW	4700	3/29	SP	3.9	6.6	5.1
SACAJAWEA	6550	3/30	49	17.1	18.0	15.3
SADDLE MOUNTAIN	7940	3/30	93	33.8	30.3	26.4
SADDLE MOUNTAIN PILLOW	7940	3/30	SP	32.8	30.7	28.2
SAWTELL MOUNTAIN (ID)	8710	3/31	98	36.8	35.2	35.3
SENTINEL CREEK	8300	4/01	72	27.3	25.6	24.6
SHOWER FALLS	8100	3/29	84	30.1	29.3	26.1
SHOWER FALLS PILLOW	8100	3/29	SP	28.3	29.3	26.3
SILVER RUN	6630	3/31	25	6.4	7.4	-
SKALKAHO SUMMIT	7260	3/29	93	35.2	31.2	27.4
SLAG-A-MELT LAKE	8750	3/29	94	35.6	30.6	27.8
SLIDE ROCK MOUNTAIN	7100	3/30	73	25.0	18.4	18.0
SMUGGLER MINE	6960	3/30	36	9.9	13.8	11.1
SOUTH FORK SHIELDS	8100	3/30	75	26.9	28.6	26.1
SPOTTED BEAR MOUNTAIN	7000	3/31	49	17.6	17.2	15.8
SPUR PARK	8000	4/01	62	23.2	22.3	23.8
SPUR PARK PILLOW	8100	4/01	SP	23.6	23.5	23.5
STAHL PEAK	6050	4/04	104	41.3	39.8	41.4
STAR LAKE E	9650	4/02	123	50.5A	44.0	-
STEMPLE PASS	6600	4/01	46	13.6	14.0	11.4
STORM LAKE	7780	3/29	63	20.9	14.0	15.0
STUART MILL	6500	4/01	33	9.3	9.9	7.5
STUART MOUNTAIN	7400	4/04	104	41.3	36.4	34.2
SUCKER CREEK	5960	3/29	0	.0	1.2	-
SUGARLOAF	7350	3/25	41	13.4	11.9	-
SYLVAN PASS (WY)	7100	3/31	60	21.3	14.1	13.8
TARGHEE PASS (ID)	7000	3/31	55	19.3	17.5	16.2
TAYLOR ROAD	4080	3/29	0	.0	5.9	-
TEN MILE MIDDLE	6800	3/31	49	16.3	15.6	12.6
TEN MILE UPPER	8000	3/31	56	18.9	16.5	15.0
TEPEE CREEK	8000	4/02	63	19.0	19.8	16.4
TEPEE CREEK PILLOW	8000	4/02	SP	15.0	15.8	-
THUMB DIVIDE (WY)	7900	3/29	77	24.8	17.9	22.2
TIMBERLINE CREEK	8850	4/01	58	18.2	16.9	16.1
TEN MILE LOWER	6600	3/31	28	8.9		

-19-

Average based On 1958-72 period. A - Aerial observation; water content estimated.  
 SP - Snow Pillow observation; water content only.



## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Elevation				Last Year	Average
TRAIL CREEK	7090	3/29	42	12.8	11.6	9.0
TRINKUS LAKE	6100	3/31	110	43.1	49.7	46.5
TV MOUNTAIN	6800	4/03	68	23.0	22.0	20.3
TWELVEMILE CREEK	5600	3/31	82	31.6	26.0	21.1
TWELVEMILE CREEK PILLOW	5600	3/31	SP	26.3	22.7	18.6
TWENTY-ONE MILE	7150	4/01	61	24.8	20.3	17.9
TWIN CREEKS	3580	3/31	37	13.5	16.0	11.7
TWIN LAKES	6510	3/31	141	57.8	46.8	43.7
TWIN LAKES PILLOW	6400	3/31	SP	55.1	47.3	42.7
UPPER HOLLAND LAKE	6200	3/31	109	42.8	40.1	38.3
VALLEY VIEW (ID)	6500	3/31	58	21.6	19.2	17.7
WALDRON	5600	4/04	29	10.4	11.8	12.2
WALDRON PILLOW	5600	4/04	SP	8.4	9.0	12.1
WEASEL DIVIDE	5450	3/29	113	39.6	38.0	36.4
WEST ROSEBUD	7500	3/25	52	16.6	14.2	12.4
WEST YELLOWSTONE	6700	3/31	51	17.7	11.8	11.4
WEST YELLOWSTONE PILLOW	6700	3/30	SP	12.7	8.9	8.8
WHISKEY CREEK	6800	3/31	74	28.4	25.4	22.1
WHISKEY CREEK PILLOW	6800	3/31	SP	22.9	17.6	-
WHITE ELEPHANT (ID)	7700	3/31	81	30.4	27.7	-
WHITE MILL	8700	4/01	93	36.2	28.7	27.7
WHITE MILL PILLOW	8700	4/01	SP	31.9	26.2	-
WHITE PINE RIDGE	8850	3/29	34	7.2	5.9	5.7
WILLOW CREEK	6500	3/31	38	11.0	9.2	-
WOLVERINE (WY)	7650	3/31	56	18.6	15.2	-
WRONG CREEK	5700	3/31	46	14.2	15.6	16.2
WRONG RIDGE	6800	3/31	66	24.2	19.9	22.0

## LATE ARRIVING DATA

BEAR MOUNTAIN (ID)	5400	4/06	171	70.8	70.2	65.7
HALVERSON CREEK (ID)	4850	4/06	141	59.1	53.6	50.7
KEELER CREEK	3300	4/06	35	15.3	20.3	11.1



NOISY BASIN PROFILE

SNOW GAGE

3/29/76

Depth 118 inches

Snow Water Equivalent 34.5 inches

Average Density 27.3%

160

140

120

100

80

60

40

20

0

10

20

30

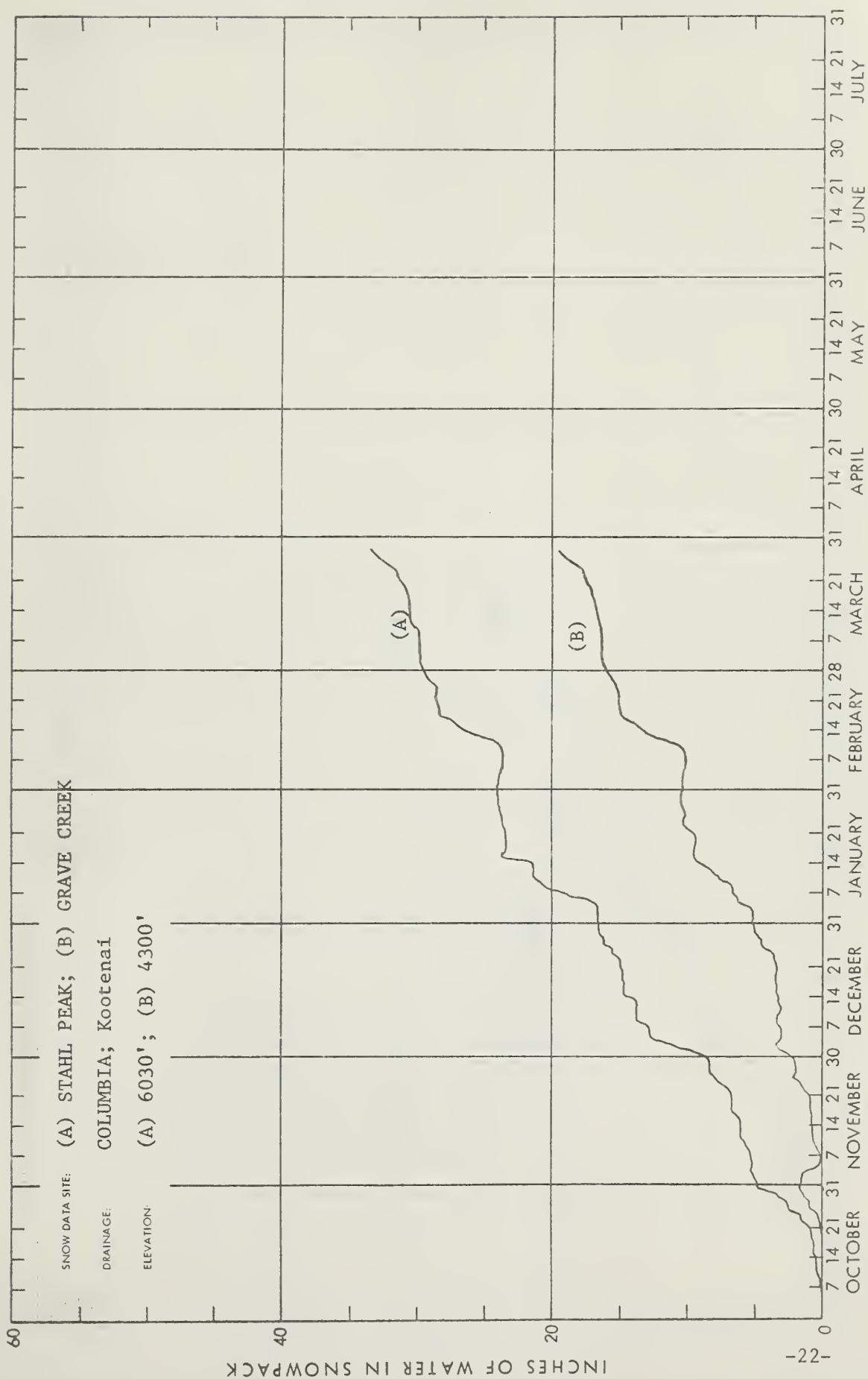
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50

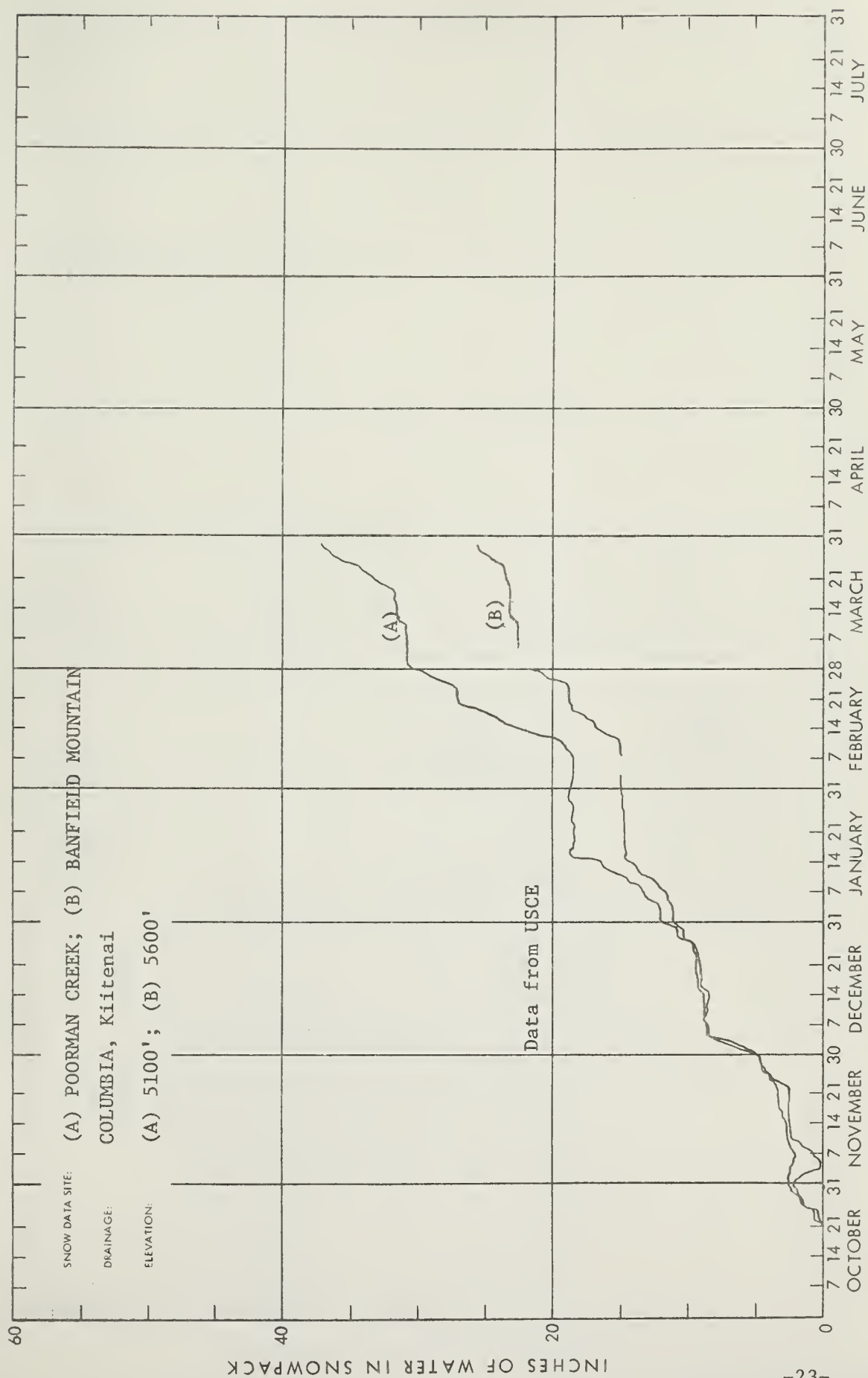
% Density



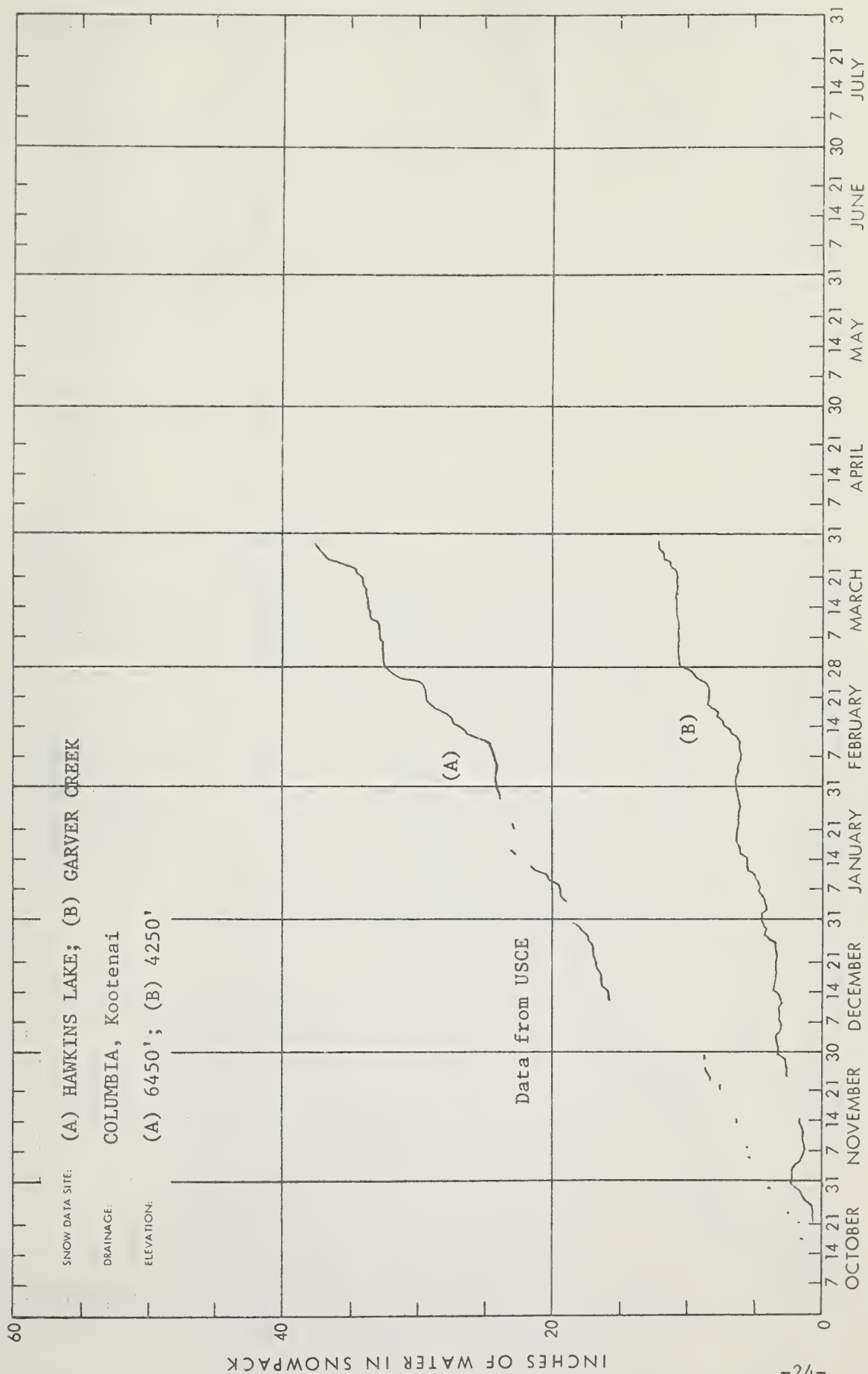




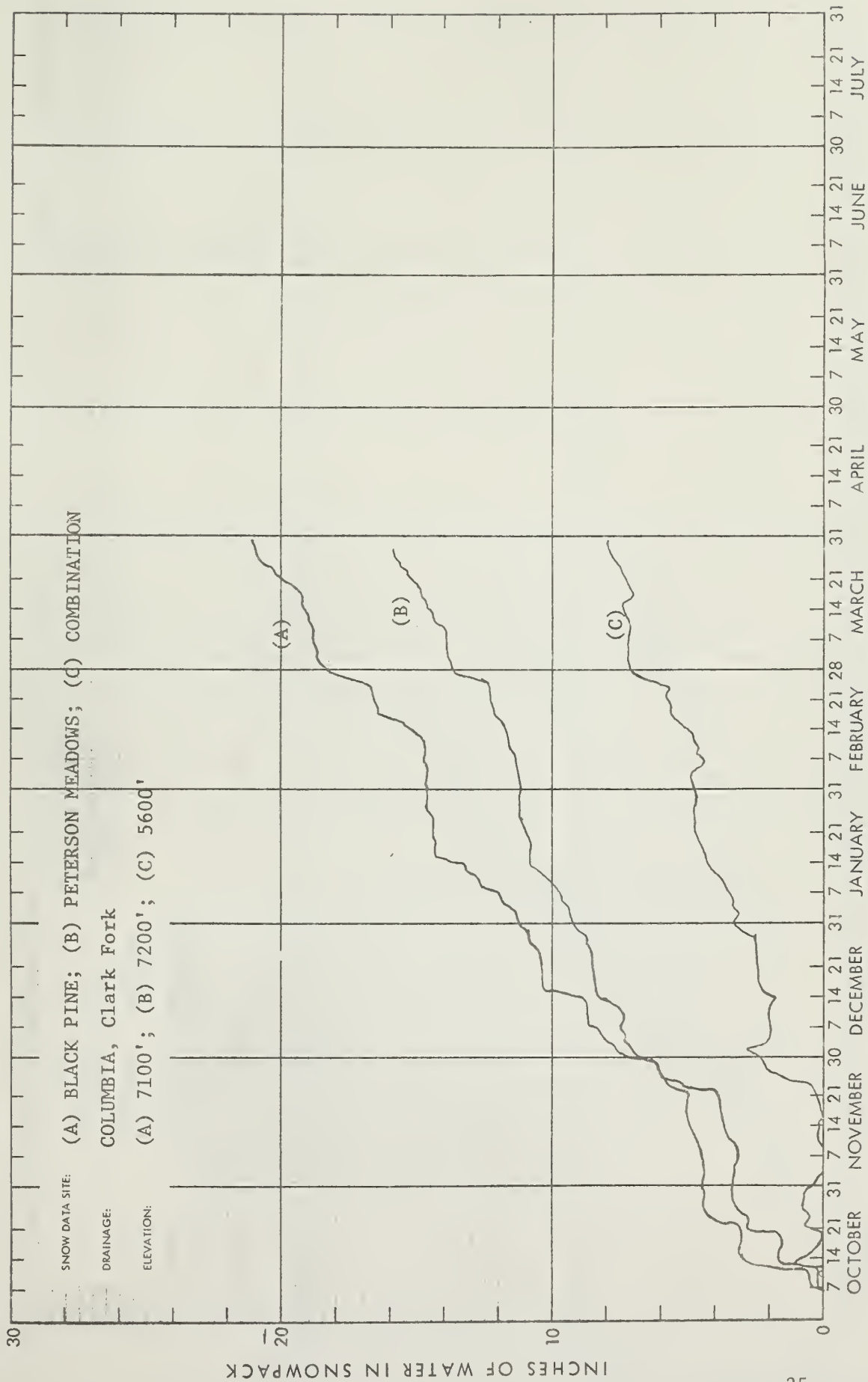










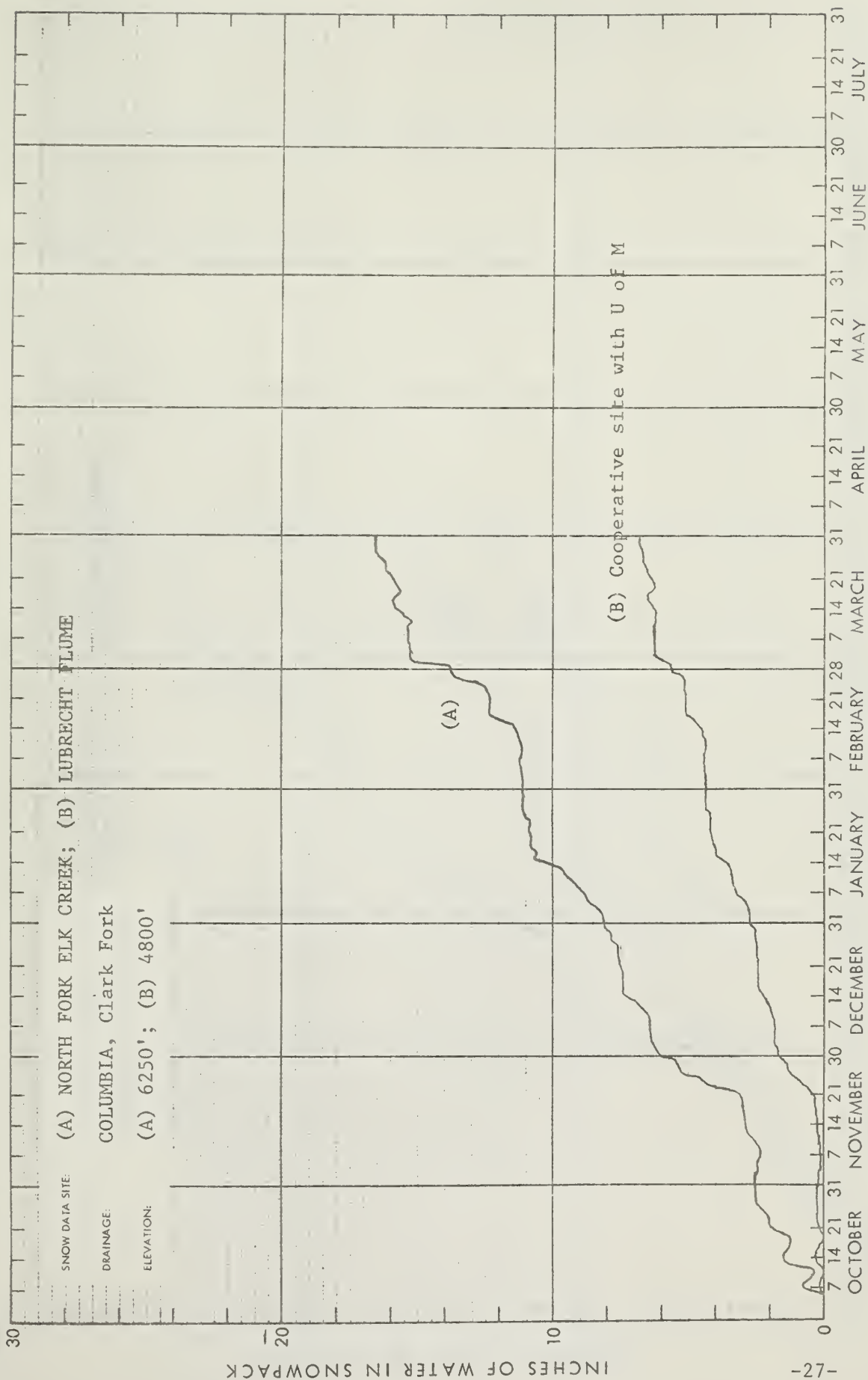




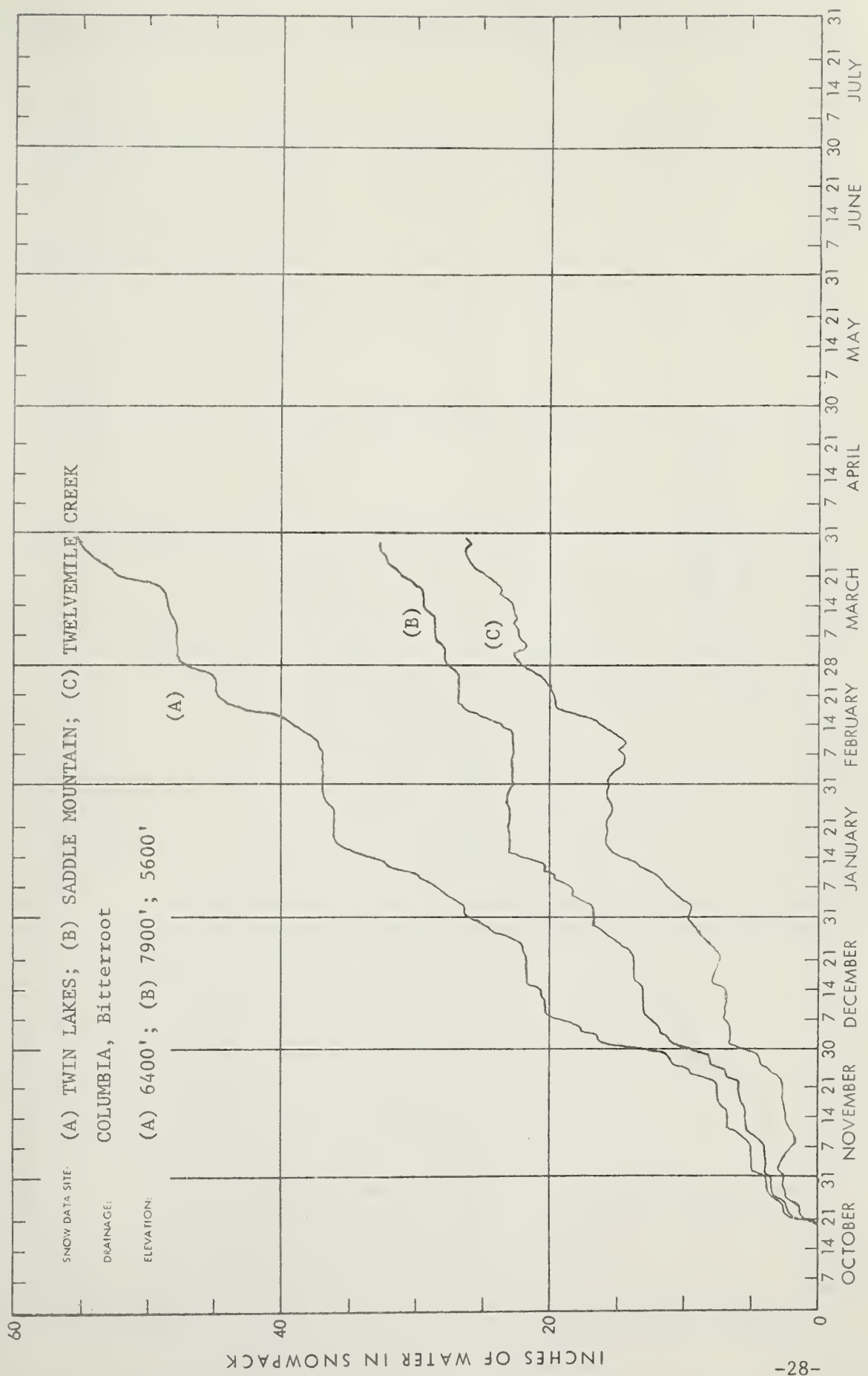










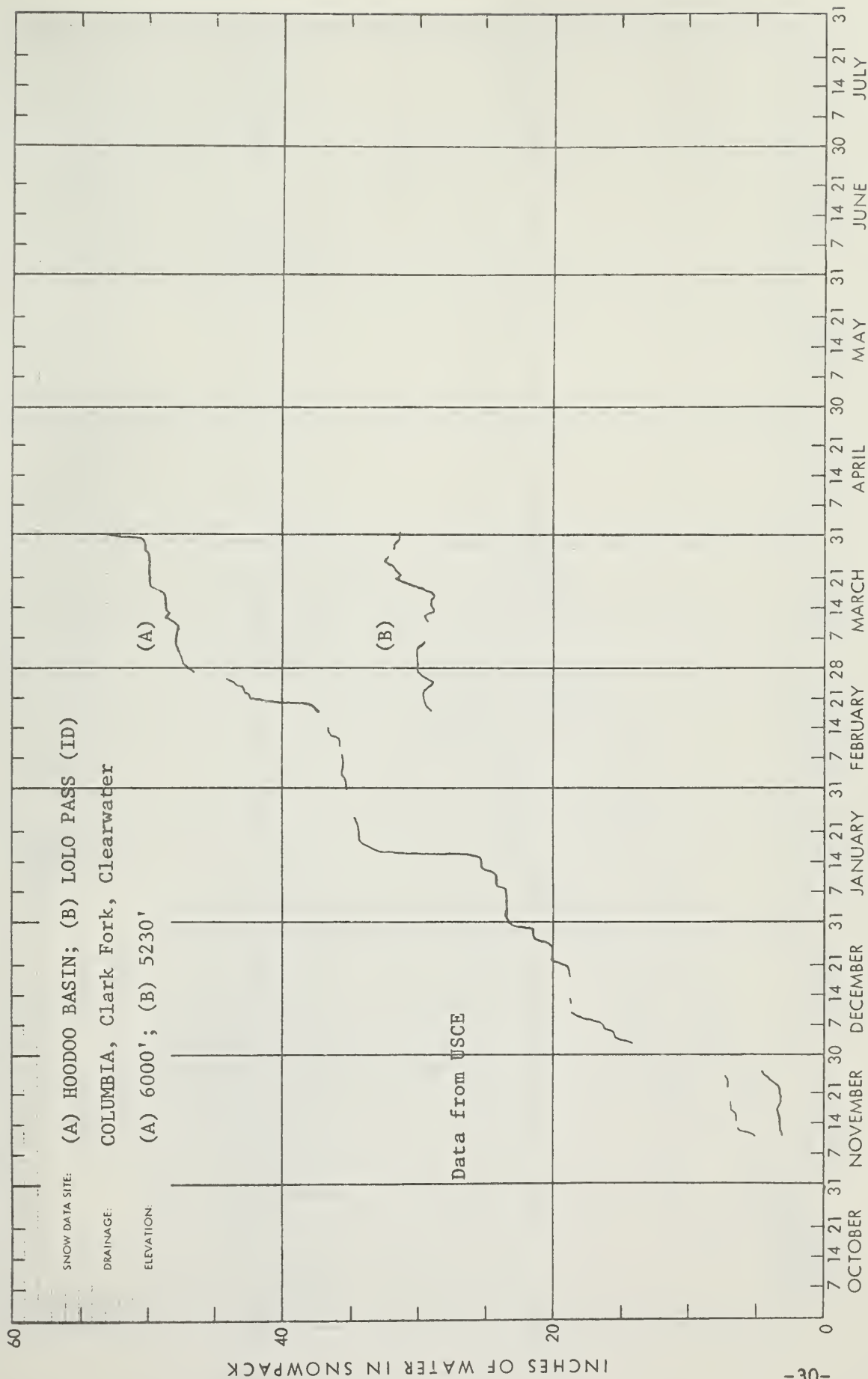




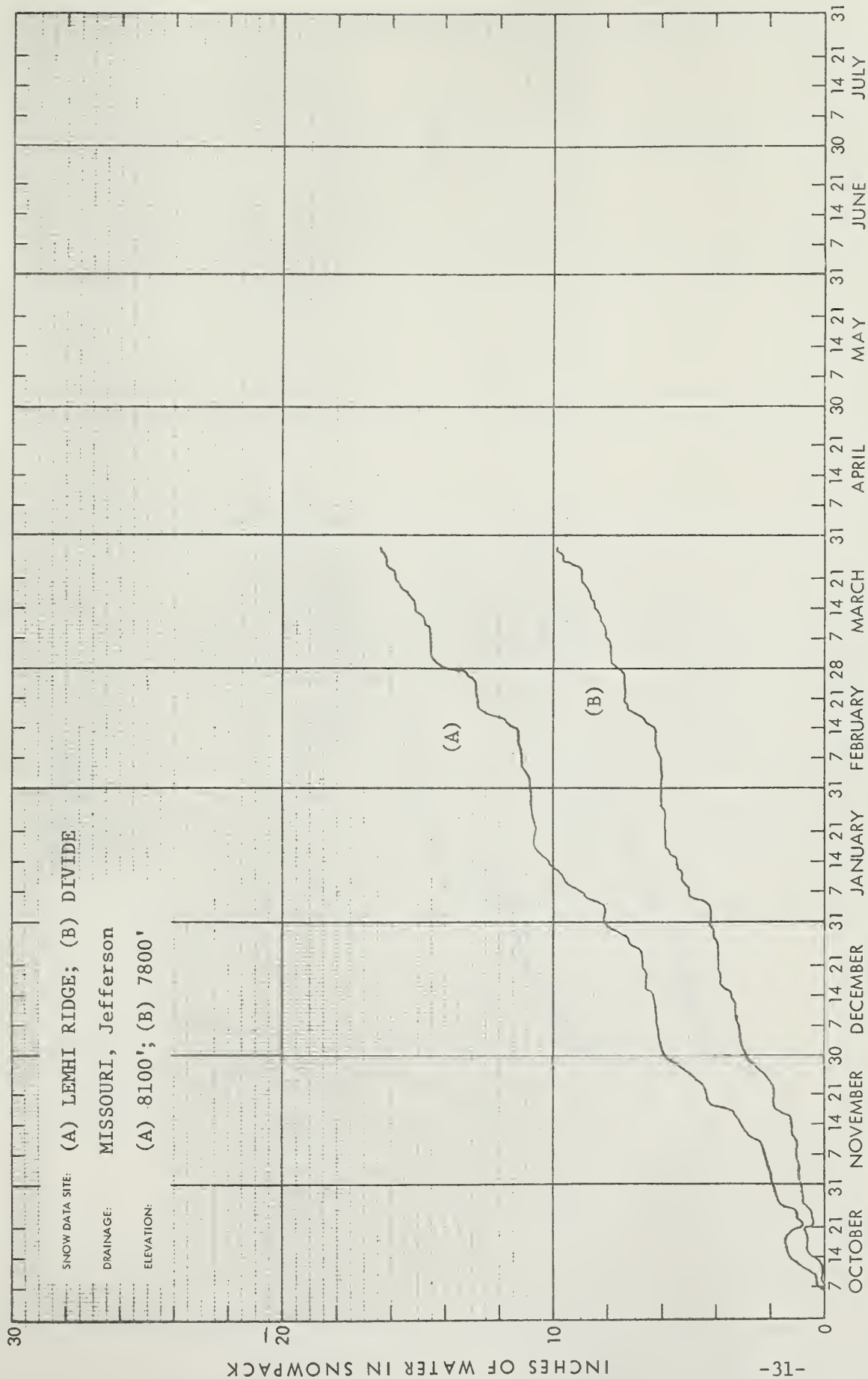










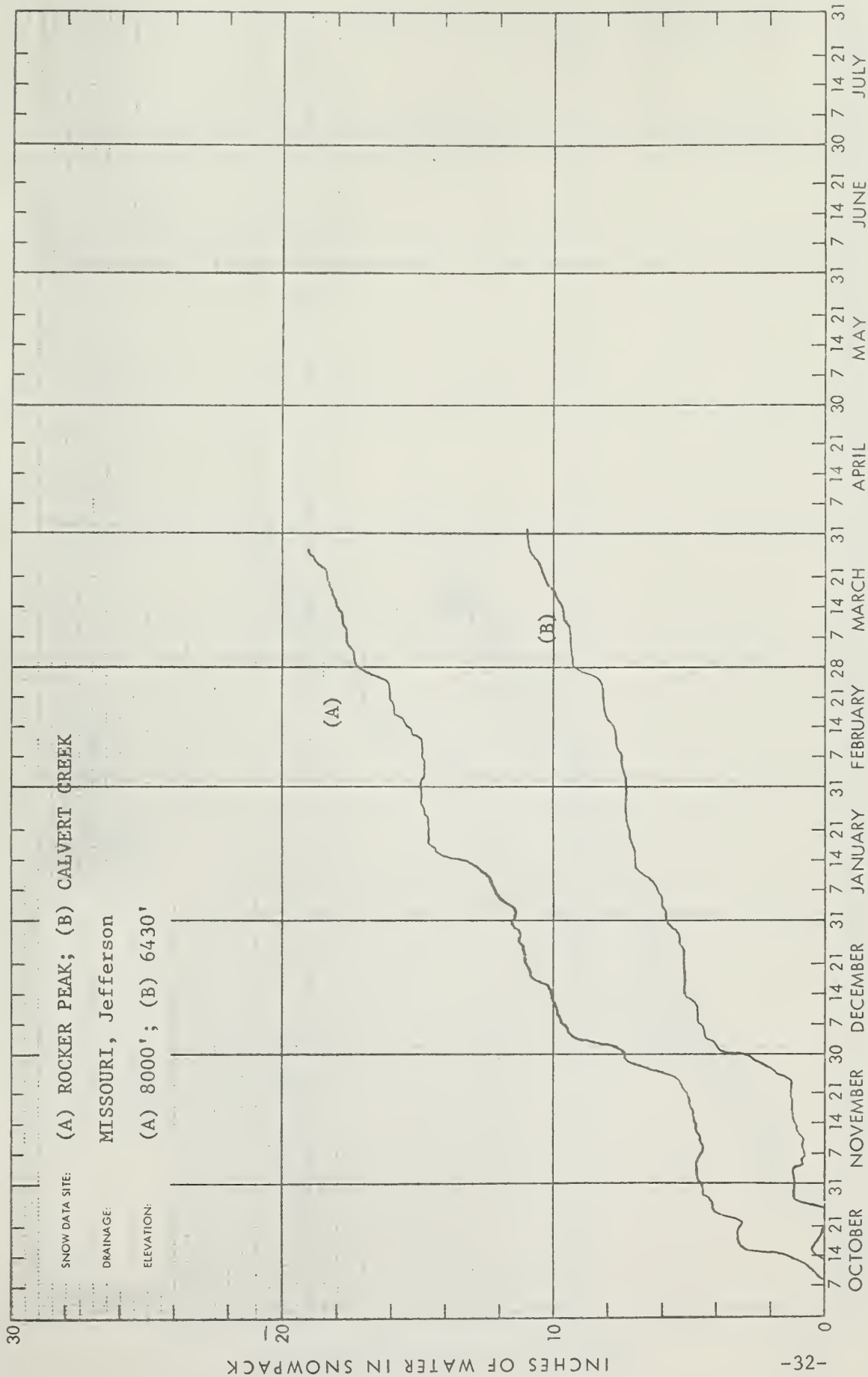




SNOW DATA SITE: (A) ROCKER PEAK; (B) CALVERT CREEK

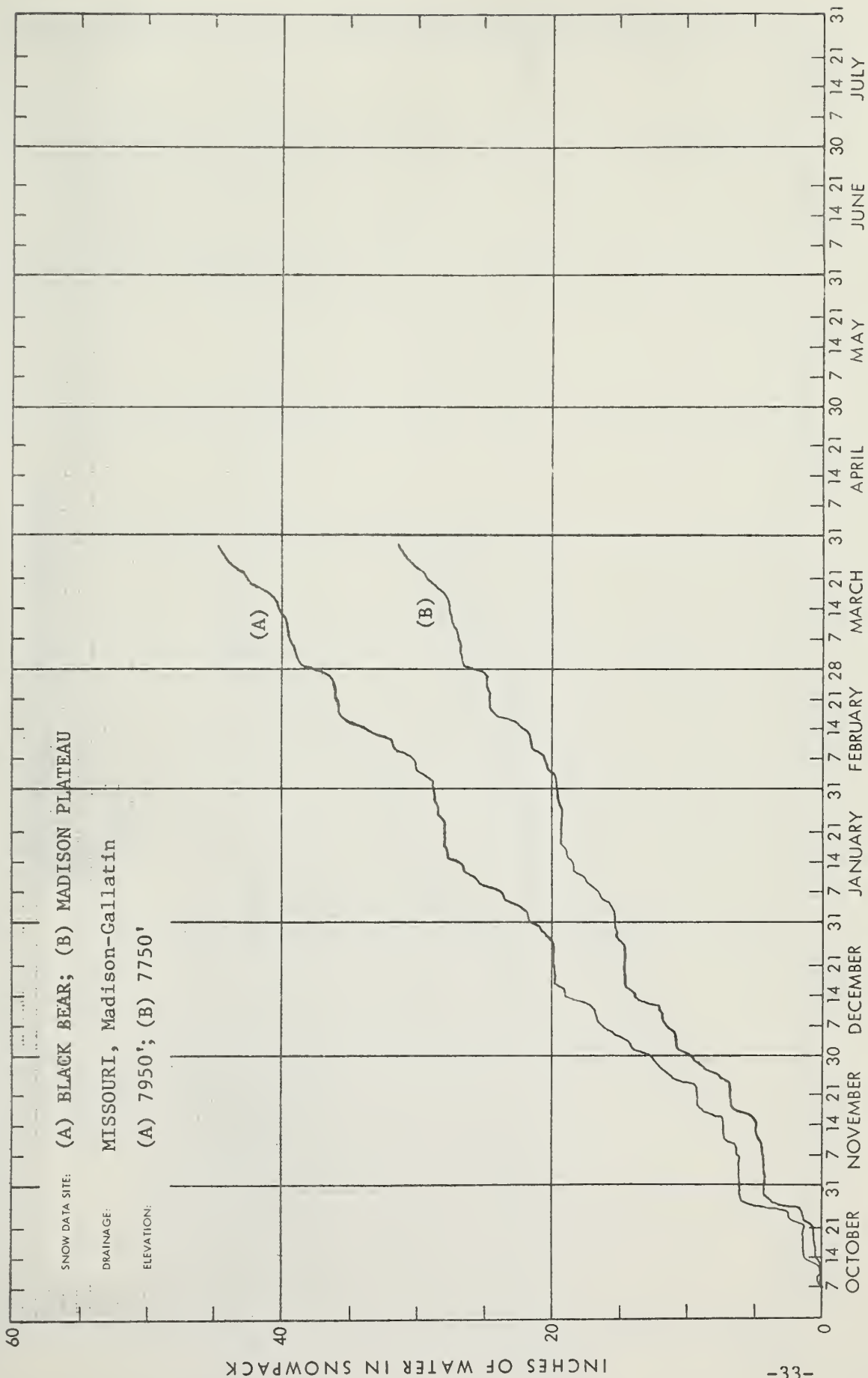
DRAINAGE: MISSOURI, Jefferson

ELEVATION: (A) 8000'; (B) 6430'

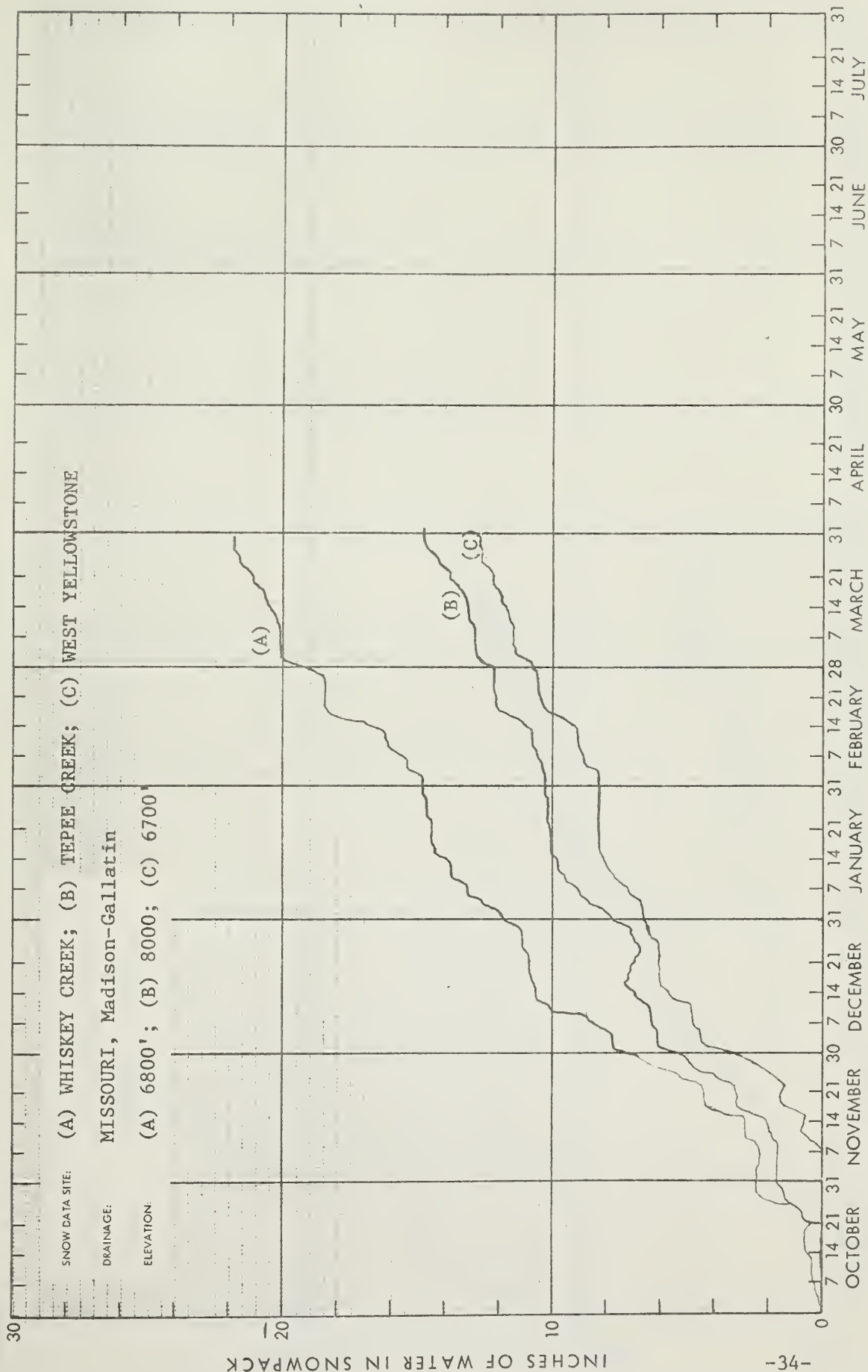




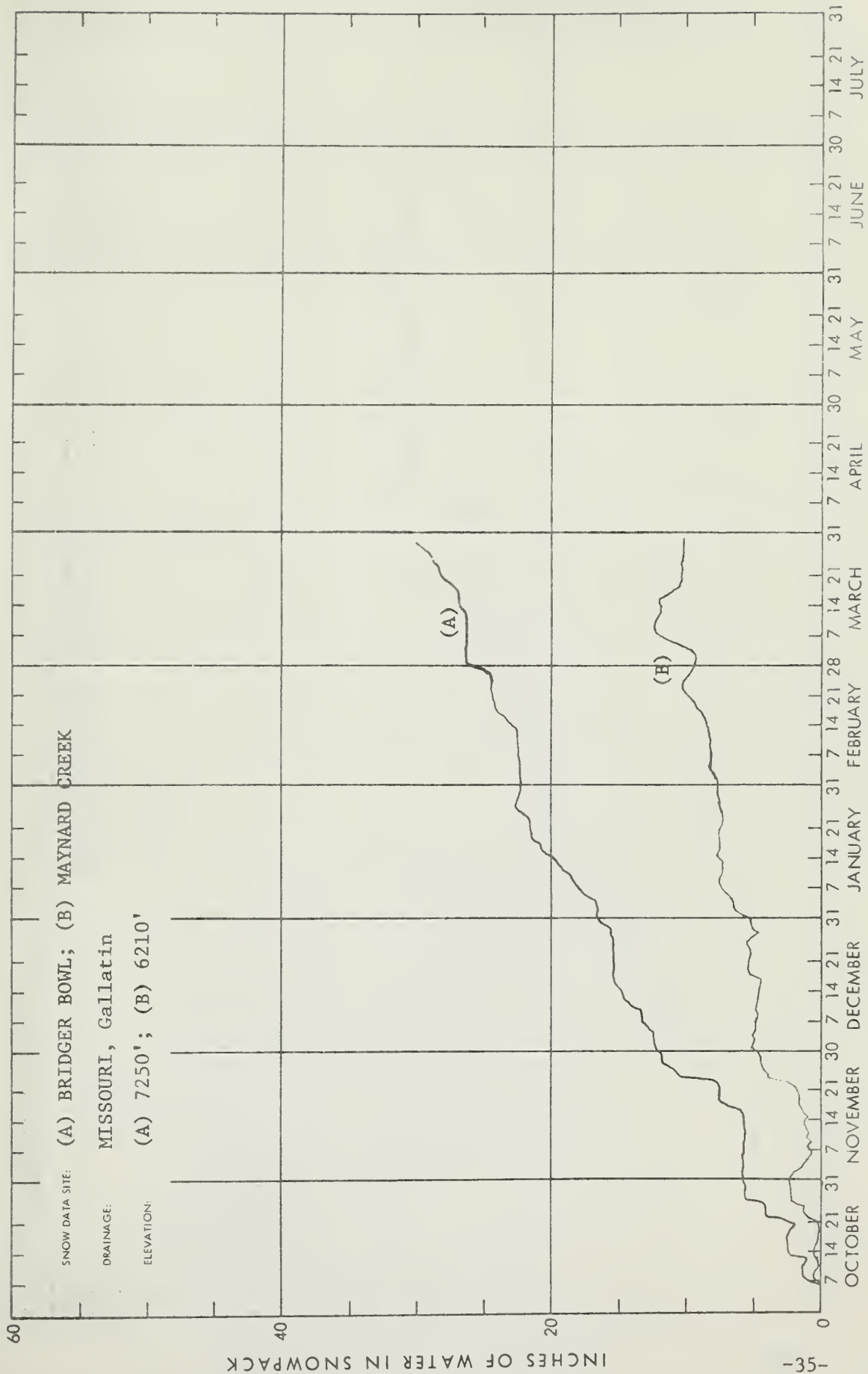




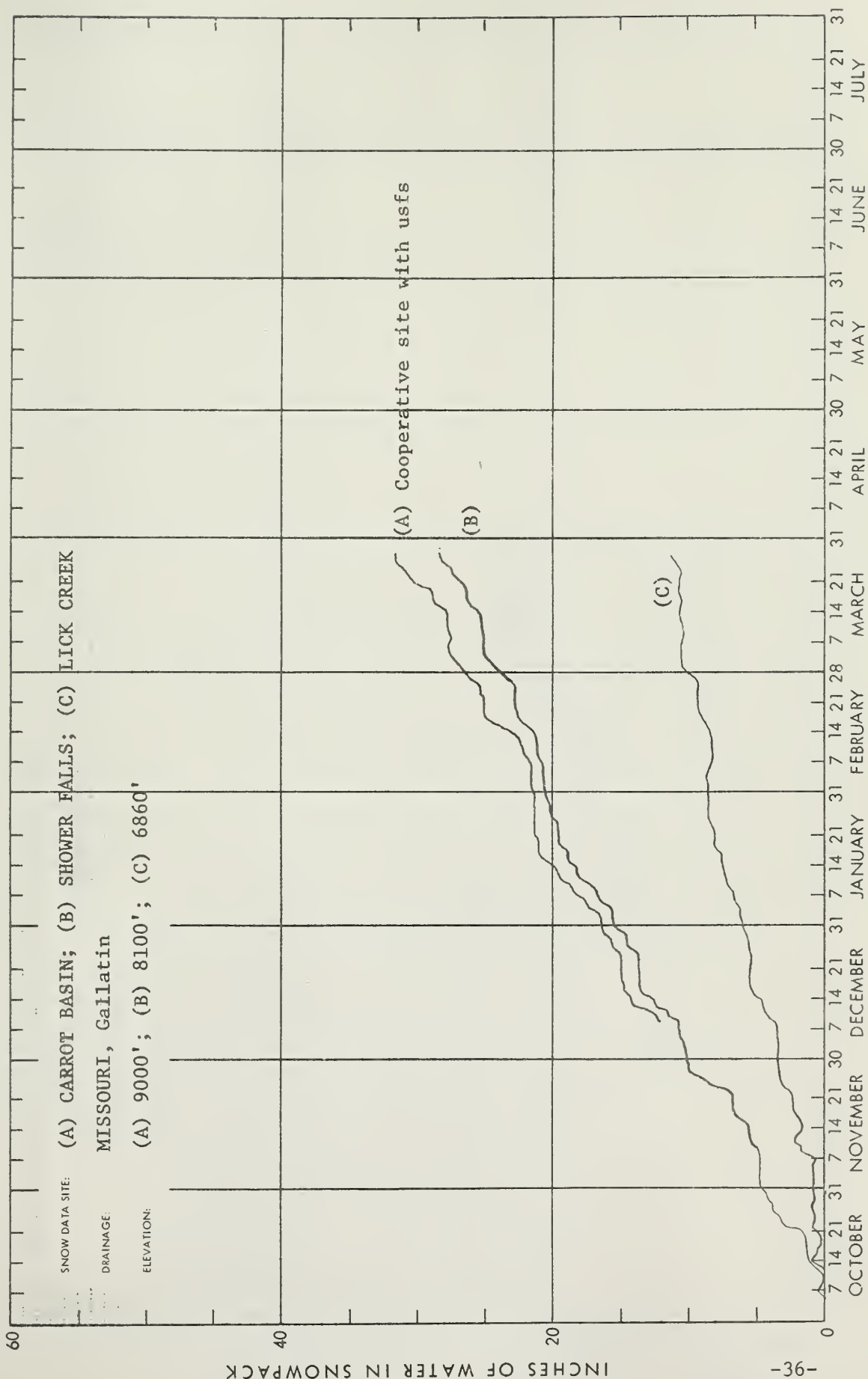






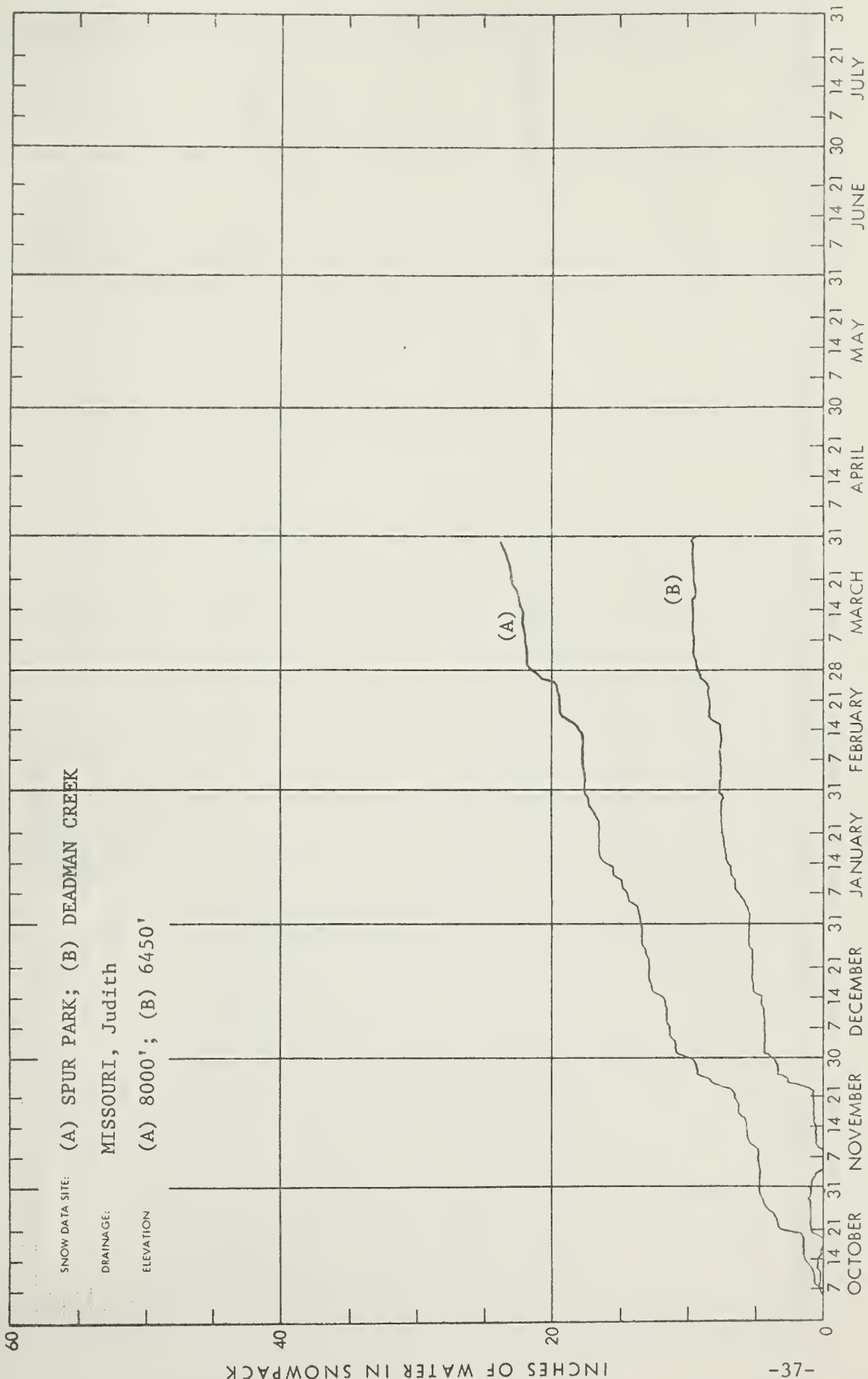




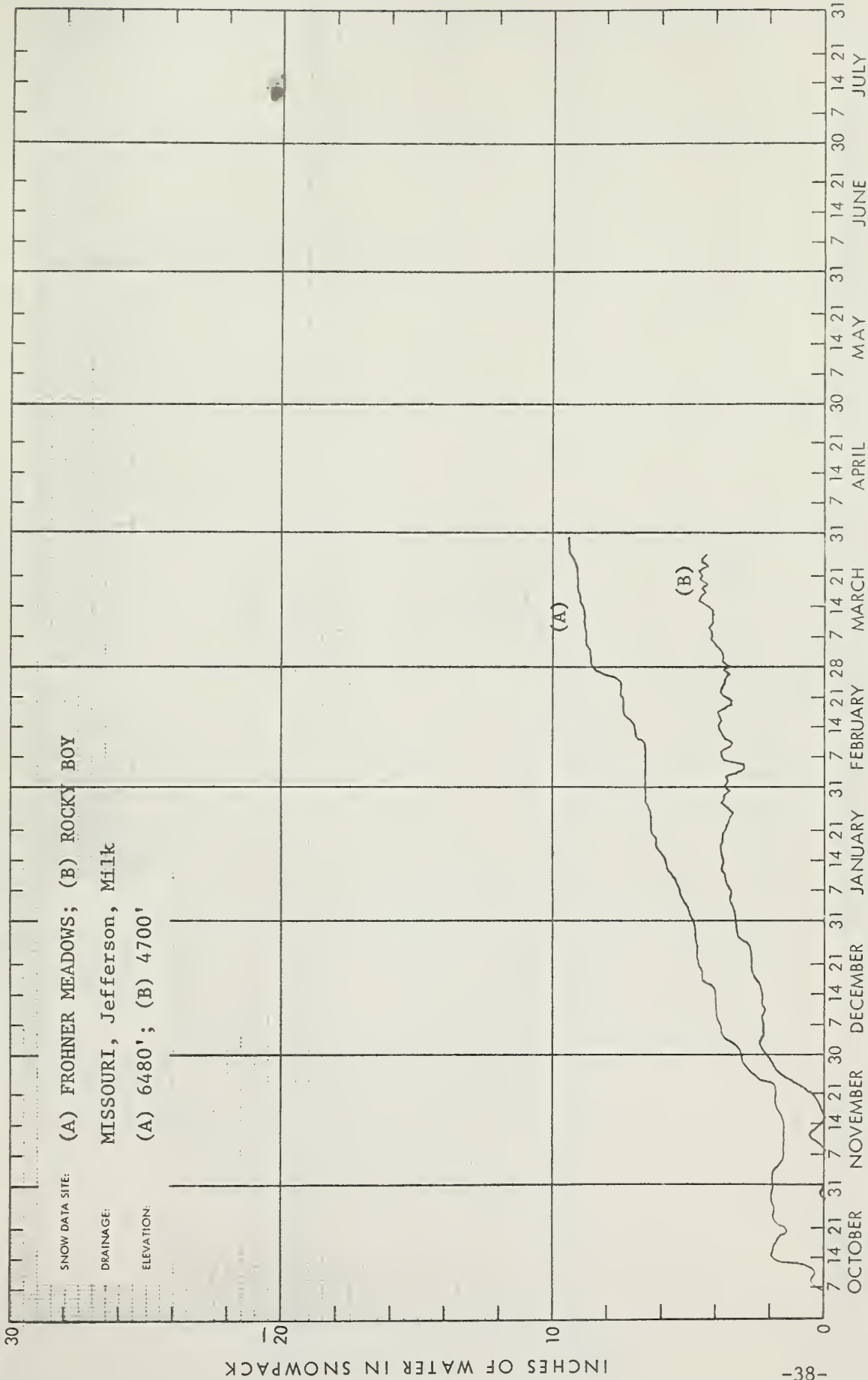




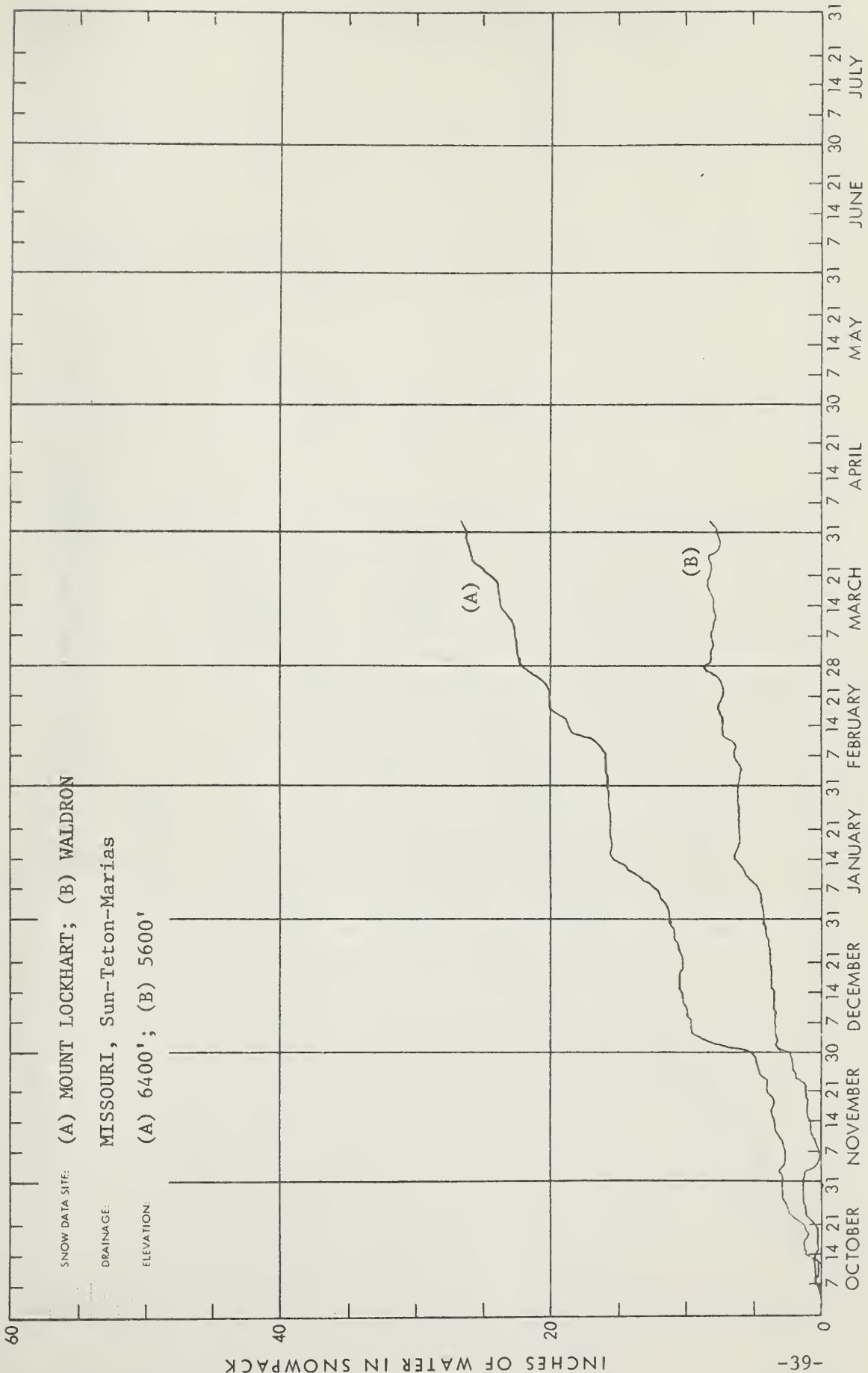




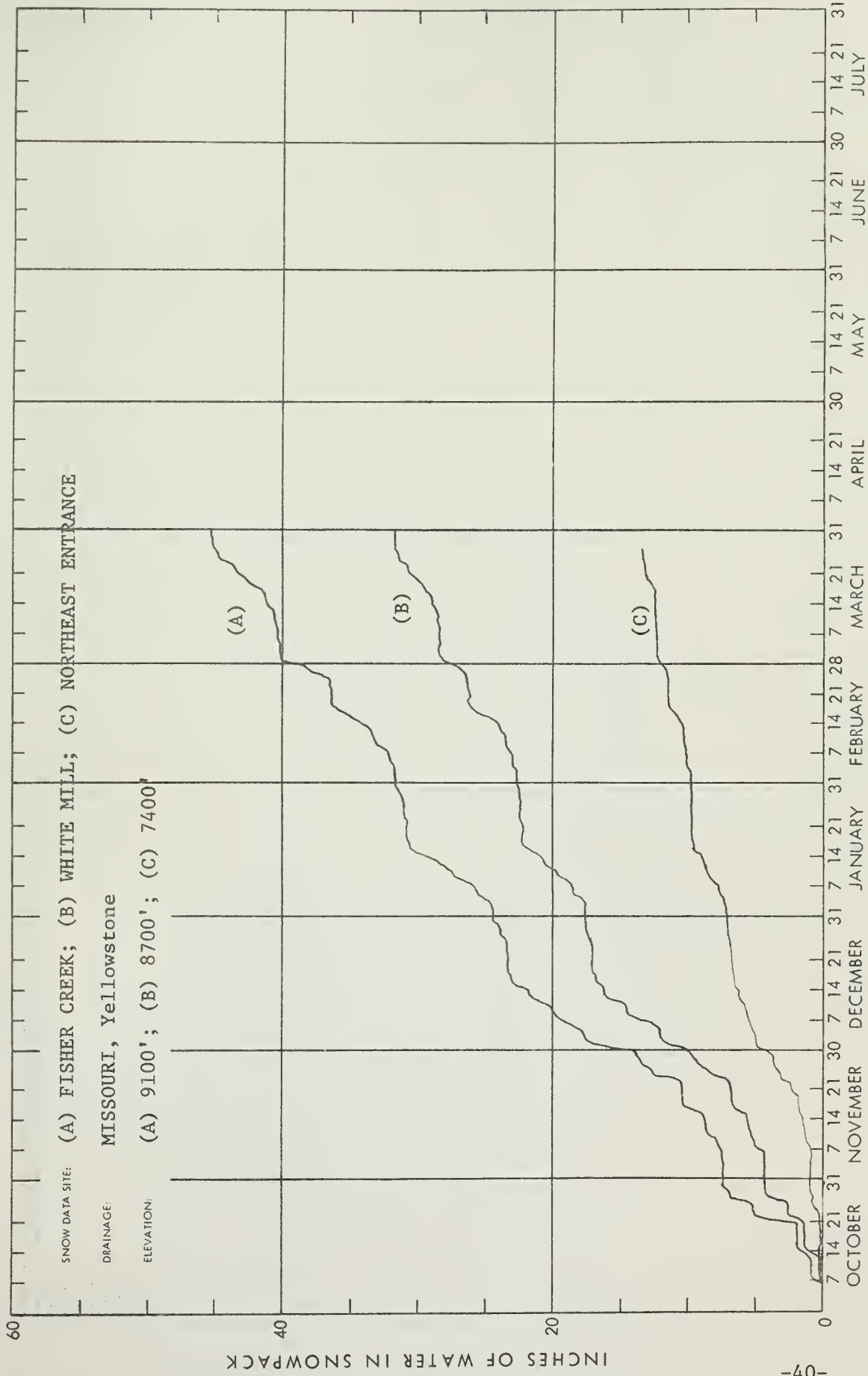






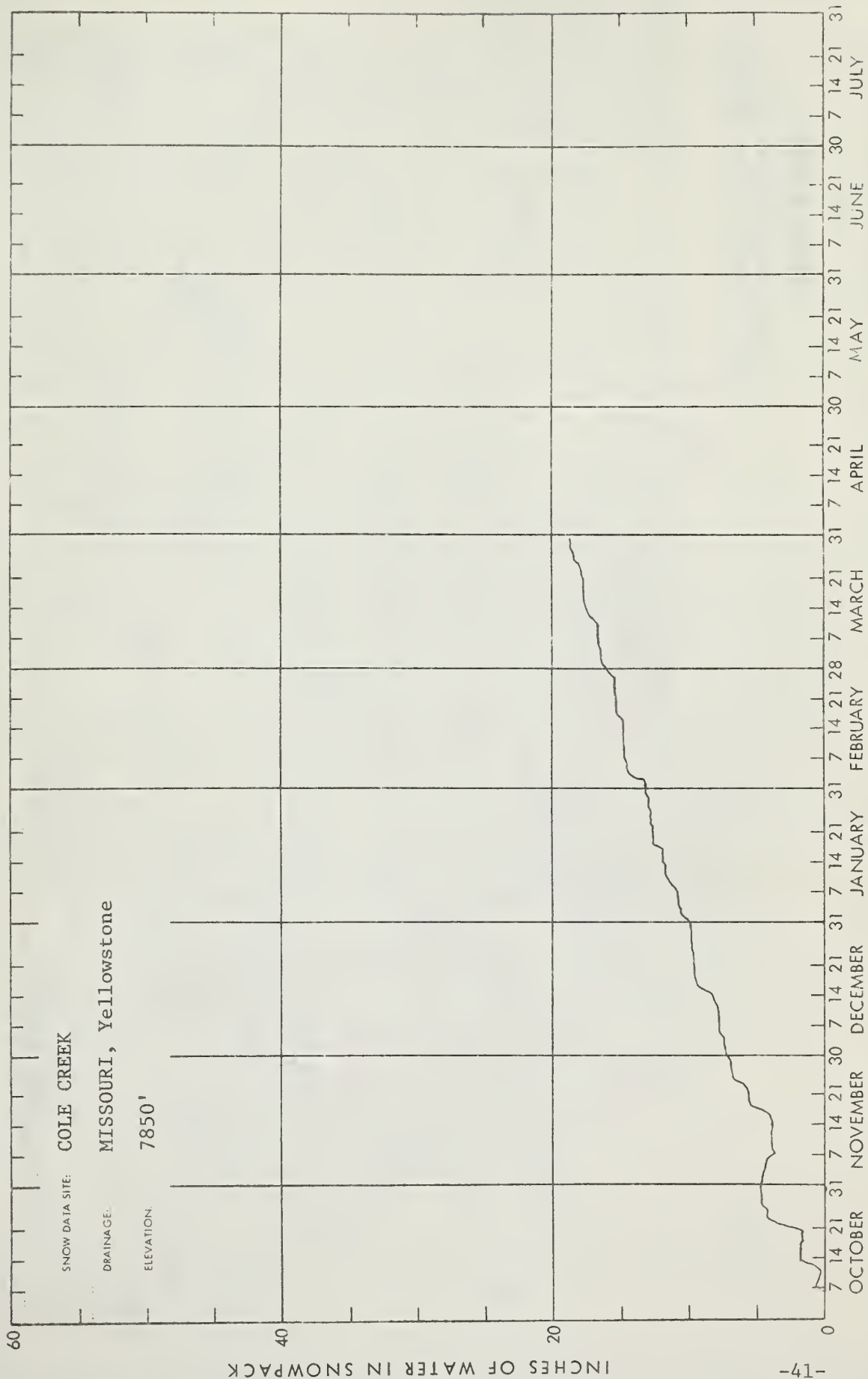




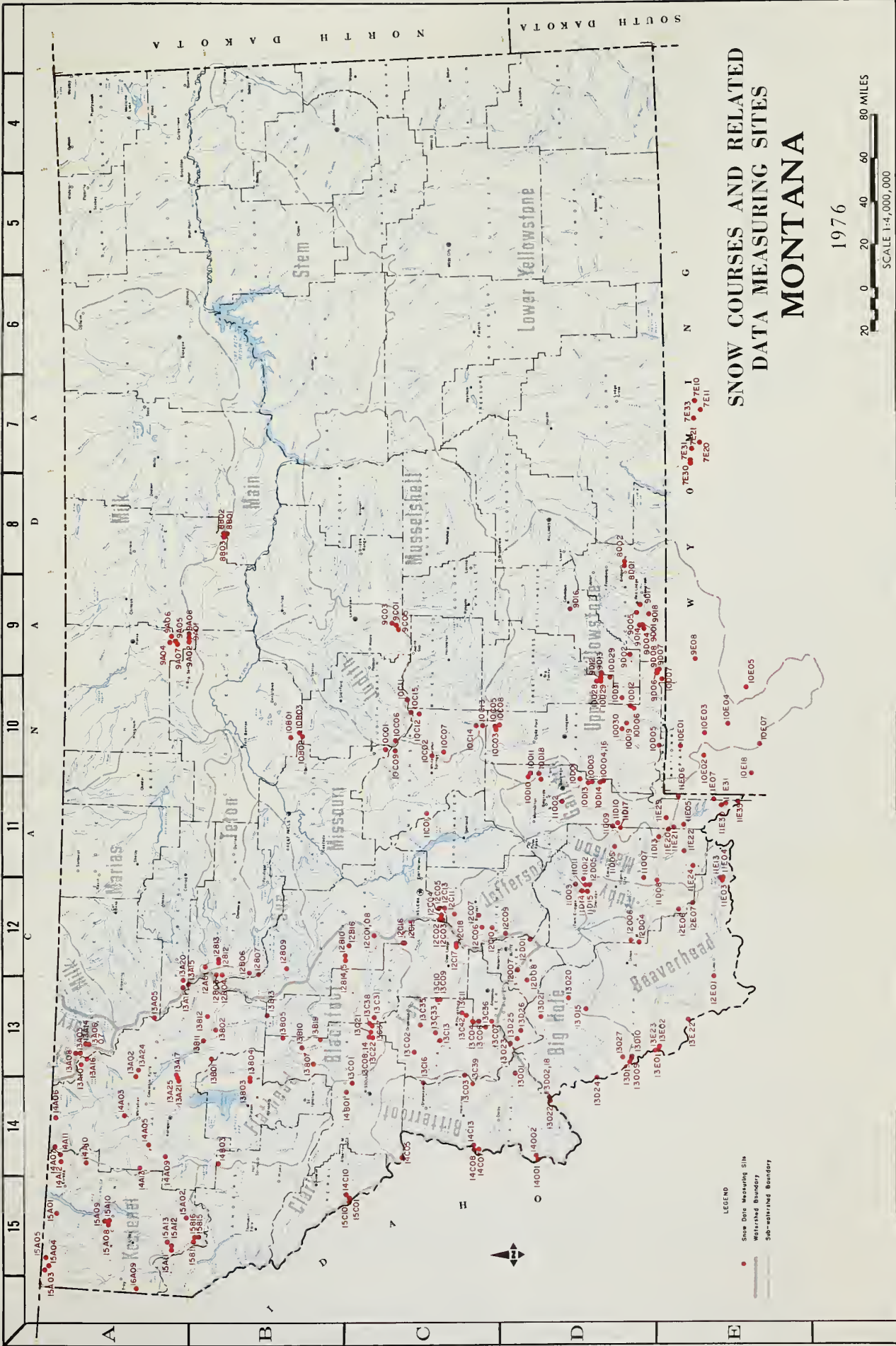






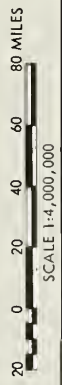






# SNOW COURSES AND RELATED DATA MEASURING SITES MONTANA

1976



- LEGEND
- Snow Data Measuring Site
  - Watershed Boundary
  - - - Sub-watershed Boundary





# Agencies and Organizations Cooperating in Montana Snow Surveys

## GOVERNMENT AGENCIES

### Canada:

Water Survey of Canada, Calgary, Department of the  
Environment  
Water Resources Service, Department of Lands, Forests  
and Water Resources, British Columbia

### Federal:

Department of the Army  
Corps of Engineers  
U.S. Department of Agriculture  
Forest Service  
Soil Conservation Service  
U.S. Department of Commerce  
NOAA, National Weather Service  
U.S. Department of the Interior  
Bonneville Power Administration  
Bureau of Indian Affairs  
Bureau of Reclamation  
Fish and Wildlife Service  
Geological Survey  
National Park Service

## STATE

Montana Association of Conservation Districts  
Montana Department of Fish and Game  
Montana Department of Natural Resources and  
Conservation  
Montana State University - Agricultural Experiment  
Station  
University of Montana - School of Forestry

## PRIVATE

Montana Power Company

Other organizations and individuals furnish valuable  
information for snow survey reports. Their cooperation  
is gratefully acknowledged.

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with the Snow Survey"*

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